

[illegible]

```
EEEEEEEEEE DDDDDDDD IIIIII TTTTTTTTTT
EEEEEEEEEE DDDDDDDD IIIIII TTTTTTTTTT
EE          DD      DD      II      TT
EE          DD      DD      II      TT
EE          DD      DD      II      TT
EE          DD      DD      II      TT
EEEEEEEEEE DD      DD      II      TT
EEEEEEEEEE DD      DD      II      TT
EE          DD      DD      II      TT
EE          DD      DD      II      TT
EE          DD      DD      II      TT
EEEEEEEEEE DDDDDDDD IIIIII TTT
EEEEEEEEEE DDDDDDDD IIIIII TTT
```

```
....
....
....
....
```

```
LL          IIIIII SSSSSSSS
LL          IIIIII SSSSSSSS
LL          II      SS
LL          II      SS
LL          II      SS
LL          II      SS
LL          II      SSSSSS
LL          II      SSSSSS
LL          II      SS
LL          II      SS
LL          II      SS
LL          II      SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS
```

H 12
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1Page 1
(1)

```
1 0001 0 MODULE MAIL$EDIT( %TITLE 'EDIT OR ENTER A MESSAGE'
2 0002 0 IDENT = 'V04-000' ) =
3 0003 1 BEGIN
4 0004 1
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: VAX/VMS MAIL UTILITY
32 0032 1
33 0033 1 ABSTRACT: Edit or just enter a mail message.
34 0034 1
35 0035 1 ENVIRONMENT: NATIVE/USER MODE
36 0036 1
37 0037 1 AUTHOR: LEN KAWELL, CREATION DATE: 25-NOV-1979
38 0038 1
39 0039 1 MODIFIED BY:
40 0040 1
41 0041 1 V03-016 ROP0023 Robert Posniak 16-JUL-1984
42 0042 1 Change references of XYZ to TPU.
43 0043 1
44 0044 1 V03-015 ROP0007 Robert Posniak 13-JUN-1984
45 0045 1 Check validity of input file spec before
46 0046 1 entering editor. Check for illegal escape
47 0047 1 sequence when entering message.
48 0048 1
49 0049 1 V03-014 BL0280 Benn Schreiber 4-MAR-1984
50 0050 1 Handle terminator not seen and data overrun differently
51 0051 1 since data may be returned.
52 0052 1
53 0053 1 V03-013 BLS0272 Benn Schreiber 25-FEB-1984
54 0054 1 Use LIB$FIND_IMAGE_SYMBOL
55 0055 1
56 0056 1 V03-012 BLS0263 Benn Schreiber 5-FEB-1984
57 0057 1 If not using callable EDT, then copy message to temp file
```

```
58 0058 1 before calling editor.
59 0059 1
60 0060 1 V03-011 BLS0255 Benn Schreiber 28-Dec-1983
61 0061 1 Use global flags. Fix error handling in MAIL$ENTER. Make
62 0062 1 /edit work with sequential mail files.
63 0063 1
64 0064 1 V03-010 BLS0250 Benn Schreiber 8-Dec-1983
65 0065 1 Correct condition handling to not signal error if EDTINI
66 0066 1 not found. Signal error if not callable editor for READ/EDIT
67 0067 1 and EDIT commands.
68 0068 1
69 0069 1 V03-009 BLS0246 Benn Schreiber 28-Nov-1983
70 0070 1 Add EDIT/EXTRACT, support for reading messages.
71 0071 1
72 0072 1 V03-008 BLS0226 Benn Schreiber 27-Jun-1983
73 0073 1 Correct cli$ calls for edit command so that /noxxx qualifiers
74 0074 1 work as advertised
75 0075 1
76 0076 1 V03-007 BLS0222 Benn Schreiber 16-May-1983
77 0077 1 use SMG$READ_STRING rather than LIB$GET_INPUT
78 0078 1
79 0079 1 V03-006 BLS0220 Benn Schreiber 30-Apr-1983
80 0080 1 Make /READ imply /NOJOURNAL
81 0081 1
82 0082 1 V03-005 BLS0211 Benn Schreiber 13-Mar-1983
83 0083 1 Support EDIT command. Load EDTSHR on the fly. In
84 0084 1 MAIL$ENTER, use MAIL's main CTRL/C handler.
85 0085 1
86 0086 1 V03-004 BLS0200 Benn Schreiber 22-Dec-1982
87 0087 1 Remove need for MAIEDTINI by passing SET NOSUMMARY line
88 0088 1 to EDT directly.
89 0089 1
90 0090 1 V03-003 BLS0199 Benn Schreiber 16-Dec-1982
91 0091 1 Use SYSS$SYSTEM:MAIEDTINI.EDT to suppress output file summary.
92 0092 1 Check if file exists and return SENDABORT if not
93 0093 1
94 0094 1 V03-002 BLS0196 Benn Schreiber 22-Nov-1982
95 0095 1 Turn on EDT journalling
96 0096 1
97 0097 1 V03-001 BLS0176 Benn Schreiber 18-Jun-1982
98 0098 1 Add callable EDT interface
99 0099 1
100 0100 1 --
```

```
102 0101 1 |
103 0102 1 | TABLE OF CONTENTS:
104 0103 1 |
105 0104 1 |
106 0105 1 |
107 0106 1 | INCLUDE FILES:
108 0107 1 |
109 0108 1 |     LIBRARY 'SYSS$LIBRARY:STARLET';
110 0109 1 |     REQUIRE 'SRC$:MAILREQ';
111 0255 1 |     LIBRARY 'LIB$:MAILDEF';
112 0256 1 |
113 0257 1 | MACROS:
114 0258 1 |
115 0259 1 |
116 0260 1 |
117 0261 1 | EQUATED SYMBOLS:
118 0262 1 |
119 0263 1 |
120 0264 1 |
121 0265 1 | OWN STORAGE:
122 0266 1 |
123 0267 1 | OWN
124 0268 1 |     COMNOSUM: BYTE,
125 0269 1 |     COMNOFILE: BYTE,
126 0270 1 |     COMFILCNT: BYTE,
127 0271 1 |     INPUT_DESC : DYN_DESC_DECL,
128 0272 1 |     COMMAND_DESC : DYN_DESC_DECL,
129 0273 1 |     JOURNAL_DESC : DYN_DESC_DECL,
130 0274 1 |     OUTPUT_DESC : DYN_DESC_DECL;
131 0275 1 |
132 0276 1 | BIND
133 0277 1 |     DYN_DESC = JOURNAL_DESC : $BLOCK,
134 0278 1 |     DYN_DESC_2 = COMMAND_DESC : $BLOCK,
135 0279 1 |     NL_DESC = $DESCRIPTOR('NL:'),
136 0280 1 |     NO_FILE_DESC = $DESCRIPTOR(''),
137 0281 1 |     SYSIN_DESC = $DESCRIPTOR('SYSS$INPUT'),
138 0282 1 |     JOU_FILE_DESC = $DESCRIPTOR('SYSS$SCRATCH:MAIL.JOU');
139 0283 1 |
140 0284 1 | EXTERNAL REFERENCES:
141 0285 1 |
142 0286 1 |
143 0287 1 | EXTERNAL LITERAL
144 0288 1 |     CLIS_NEGATED,
145 0289 1 |     CLIS_LOCNEG,
146 0290 1 |     MAIL$C_TMP_PRO,
147 0291 1 |     SMG$EOF;
148 0292 1 |
149 0293 1 | EXTERNAL
150 0294 1 |     MAIL$MYPID,
151 0295 1 |     MAIL$W_MSG_RSIZ : WORD,
152 0296 1 |     MAIL$M_MSG_RADR,
153 0297 1 |     MAIL$M_MSG_STS,
154 0298 1 |     MAIL$G_FLAGS : $BLOCK,
155 0299 1 |     MAIL$SPAWN_CMDS,
156 0300 1 |     MAIL$M_SMG_KEYBOARD,
157 0301 1 |     MAIL$Q_INPTRAN: BLOCK[,BYTE],
158 0302 1 |     MAIL$Q_EDITNAM_DESC: BLOCK[,BYTE],

! Need to output SET NOSUM
! User's EDTINI not found
! Count fileio calls for init

! Used by MAIL$LOAD_EDT
! ditto

! Explicitly negated qualifier
! Locally negated
! Temporary file protection
! SMG eof value

! Process pid
! Seq. msg. size
! Seq. msg address
! Seq. msg status
! Control flags
! SPAWN/ATTACH cld commands
! SMG keyboard id
! SYSS$INPUT translation
! translation of MAIL$EDIT
```

```
: 159      0303 1      MAIL$Q_CALEDTNAM : $BBLOCK,      : Name of editor if callable
: 160      0304 1      MAIL$Q_USERNAME : $BBLOCK;      : User's name
: 161      0305 1
: 162      0306 1      EXTERNAL ROUTINE
: 163      0307 1      CLISDCL_PARSE,      : Parse command line
: 164      0308 1      CLISDISPATCH,      : and dispatch on it
: 165      0309 1      CLISGET_VALUE,      : Get qualifier value
: 166      0310 1      CLISPRESENT,      : Test qualifier present
: 167      0311 1      LIB$GET_INPUT,      : Read from SYSS$INPUT
: 168      0312 1      LIB$PUT_OUTPUT,      : Write to SYSS$OUTPUT
: 169      0313 1      LIB$SPAWN,      : Spawn a subprocess
: 170      0314 1      MAIL$DECR_NEWMAIL,      : Decrement new mail count
: 171      0315 1      MAIL$DISABLE_CTRL_C,      : Disable CTRL/C handling
: 172      0316 1      MAIL$EXTRACT_MESSAGE,      : Copy message text to file
: 173      0317 1      MAIL$GET_MSG,      : Read seq. mail record
: 174      0318 1      MAIL$GET_I_MSG,      : Read isam mail record
: 175      0319 1      MAIL$GETMSG,      : Get error message text
: 176      0320 1      MAIL$LOAD_LBRSHR,      : Load LBRSHR
: 177      0321 1      MAIL$NEW_MSG,      : Test if new message
: 178      0322 1
: 179      0323 1      MAIL$REWIND_I_MSG,      : Rewind isam mail msg
: 180      0324 1      SMGSREAD_STRING,      : Read string
: 181      0325 1      STR$CONCAT,      : String concatenation
: 182      0326 1      STR$COPY_DX,      : String copy routine
: 183      0327 1      STR$FREE_DX,      : Free dynamic string
: 184      0328 1      UTIL$REPORT_IO_ERROR,      : Report i/o error
: 185      0329 1      LIB$FIND_IMAGE_SYMBOL;      : Load image, find symbol val
: 186      0330 1
: 187      0331 1      : Define local names for shared messages
: 188      0332 1
: 189      P 0333 1      $SHR_MSGDEF(MAIL,126,LOCAL,
: 190      P 0334 1      (READERR,ERROR),
: 191      P 0335 1      (OPENIN,ERROR),
: 192      P 0336 1      (OPENOUT,ERROR),
: 193      P 0337 1      (CLOSEOUT,ERROR),
: 194      P 0338 1      (FILNOTDEL,WARNING),
: 195      0339 1      (WRITEERR,WARNING));
: 196      0340 1
: 197      0341 1      : Table of symbol names
: 198      0342 1
: 199      0343 1      OWN
: 200      0344 1      XYZ_HANDLER;
: 201      0345 1
: 202      M 0346 1      MACRO EDTSYM(EDTNAME) =
: 203      M 0347 1      PSECT OWN = $OWNS;
: 204      M 0348 1
: 205      M 0349 1      OWN %NAME('EDT_',EDTNAME) : LONG;
: 206      M 0350 1
: 207      M 0351 1      PSECT OWN = EDT_ADDRESSES (NOWRITE,EXECUTE);
: 208      M 0352 1
: 209      M 0353 1      OWN %NAME(EDTNAME,'_ADDR') : INITIAL(%NAME('EDT_',EDTNAME));
: 210      M 0354 1
: 211      M 0355 1      PSECT OWN = EDT_NAMES (NOWRITE,EXECUTE);
: 212      M 0356 1
: 213      M 0357 1      OWN %NAME(EDTNAME) : VECTOR[2,LONG]
: 214      M 0358 1      INITIAL(%CHARCOUNT(%NAME('EDT$',EDTNAME)),
: 215      M 0359 1      UPLIT(%STRING('EDT$',%NAME(EDTNAME))));
```

```
: 216      M 0360 1
: 217      0361 1      UNDECLARE %NAME(EDTNAME, '_ADDR'), %NAME(EDTNAME)%;
: 218      0362 1
: 219      0363 1 PSECT OWN = EDT_ADDRESSES(NOWRITE, EXECUTE);
: 220      0364 1
: 221      0365 1 OWN
: 222      0366 1      EDT_ADDR_HEAD : VECTOR[0, LONG];
: 223      0367 1
: 224      0368 1 PSECT OWN = EDT_NAMES(NOWRITE, EXECUTE);
: 225      0369 1
: 226      0370 1 OWN
: 227      0371 1      EDT_NAMES_HEAD : VECTOR[0, LONG];
: 228      0372 1
: 229      0373 1 EDTSYM(M_RECOVER);
: 230      0374 1 EDTSYM(M_NOJOURNAL);
: 231      0375 1 EDTSYM(M_NOOUTPUT);
: 232      0376 1 EDTSYM(M_NOCOMMAND);
: 233      0377 1 EDTSYM(M_NOCREATE);
: 234      0378 1 EDTSYM(K_COMMAND_FILE);
: 235      0379 1 EDTSYM(K_INPUT_FILE);
: 236      0380 1 EDTSYM(K_OPEN_INPUT);
: 237      0381 1 EDTSYM(K_GET);
: 238      0382 1 EDTSYM(K_CLOSE);
: 239      0383 1 EDTSYM(EDIT);
: 240      0384 1 EDTSYM(FILEIO);
: 241      0385 1
: 242      0386 1 PSECT OWN = EDT_ADDRESSES;
: 243      0387 1
: 244      0388 1 OWN
: 245      0389 1      EDT_ADDR_END : LONG INITIAL(0);          !Mark end of table
: 246      0390 1
: 247      0391 1 PSECT OWN = $OWNS;
: 248      0392 1
: 249      0393 1 !
: 250      0394 1 ! Define names for qualifier name descriptors
: 251      0395 1 !
: 252      P 0396 1 SD (
: 253      P 0397 1      'EDTSHR',
: 254      P 0398 1      'COMMAND',
: 255      P 0399 1      'CREATE',
: 256      P 0400 1      'INPUT',
: 257      P 0401 1      'JOURNAL',
: 258      P 0402 1      'OUTPUT',
: 259      P 0403 1      'READ',
: 260      0404 1      'RECOVER');
```

```
262 0405 1 GLOBAL ROUTINE MAIL$LOAD_EDT =
263 0406 1 ++
264 0407 1 FUNCTIONAL DESCRIPTION:
265 0408 1
266 0409 1 Load EDT if it has not been loaded
267 0410 1
268 0411 1 --
269 0412 2 BEGIN
270 0413 2
271 0414 2 LOCAL
272 0415 2 EDTINDEX;
273 0416 2
274 0417 2 IF NOT .MAIL$GL_FLAGS[MAIF_V_CALEDT]
275 0418 2 THEN RETURN SIGNAL(MAIL$ _NOTCALEDT);
276 0419 2
277 0420 2 IF .EDT_EDIT NEQ 0
278 0421 2 THEN RETURN TRUE;
279 0422 2
280 0423 2
281 0424 2 Make sure LBRSHR is loaded first
282 0425 2
283 P 0426 2 IF_ERR(MAIL$LOAD_LBRSHR();,
284 0427 2 RETURN .STATUS);
285 0428 2
286 0429 2 IF .MAIL$GL_FLAGS[MAIF_V_EDTEDT]
287 0430 3 THEN BEGIN
288 0431 3 EDTINDEX = 0;
289 0432 3 WHILE .EDT_ADDR_HEAD[.EDTINDEX] NEQ 0
290 0433 4 DO BEGIN
291 P 0434 4 IF_ERR(LIB$FIND_IMAGE_SYMBOL(SD EDTSHR,EDT_NAMES_HEAD[.EDTINDEX*2],
292 P 0435 4 .EDT_ADDR_HEAD[.EDTINDEX]);,
293 0436 4 RETURN .STATUS);
294 0437 4 EDTINDEX = .EDTINDEX + 1;
295 0438 3 END;
296 0439 3
297 0440 3 ELSE BEGIN
298 0441 3 STR$CONCAT(DYN_DESC,MAIL$Q_CALEDTNAM,$DESCRIPTOR('SHR'));
299 0442 3 STR$CONCAT(DYN_DESC_2,MAIL$Q_CALEDTNAM,$DESCRIPTOR('$EDIT'));
300 P 0443 3 IF_ERR(LIB$FIND_IMAGE_SYMBOL(DYN_DESC,DYN_DESC_2,EDT_EDIT));,
301 0444 3 RETURN .STATUS);
302 0445 3 IF .MAIL$GL_FLAGS[MAIF_V_EDTXYZ]
303 P 0446 3 THEN IF_ERR(LIB$FIND_IMAGE_SYMBOL(DYN_DESC,$DESCRIPTOR('TPUSHHANDLER'),
304 P 0447 3 XYZ_HANDLER));,
305 0448 3 RETURN .STATUS);
306 0449 2 END;
307 0450 2
308 0451 2 RETURN TRUE
309 0452 1 END;
```

.TITLE MAIL\$EDIT EDIT OR ENTER A MESSAGE
.IDENT \V04-000\

.PSECT \$CODE\$,NOWRT,2

3A 4C 4E 5F 00000 P.AAB: .ASCII _NL:\
00000004 00004 P.AAA: .LONG 4

```
00000000' 00008 .ADDRESS P.AAB
00000000' 0000C P.AAD: .BLKB 0
00000000' 0000C P.AAC: .LONG 0
00000000' 00010 .ADDRESS P.AAD
54 55 50 4E 49 24 53 59 53 00014 P.AAF: .ASCII \SYSS$INPUT\
0001D .BLKB 3
00000009 00020 P.AAE: .LONG 9
00000000' 00024 .ADDRESS P.AAF
49 41 4D 3A 48 43 54 41 52 43 53 24 53 59 53 00028 P.AAH: .ASCII \SYSS$SCRATCH:MAIL.JOU\
55 4F 4A 2E 4C 00037
00000014 0003C P.AAG: .LONG 20
00000000' 00040 .ADDRESS P.AAH
00 00 52 45 56 4F 43 45 52 5F 4D 24 54 44 45 00044 P.AAI: .ASCII \EDTSM_RECOVER\<0><0><0>
00 00 53 4C 41 4E 52 55 4F 4A 4F 4E 5F 4D 24 54 44 45 00053
00054 P.AAJ: .ASCII \EDTSM_NOJOURNAL\<0>
00 54 55 50 54 55 4F 4F 4E 5F 4D 24 54 44 45 00063
00064 P.AAK: .ASCII \EDTSM_NOOUTPUT\<0><0>
44 4E 41 4D 4D 4F 43 4F 4E 5F 4D 24 54 44 45 00073
00074 P.AAL: .ASCII \EDTSM_NOCOMMAND\<0>
00 45 54 41 45 52 43 4F 4E 5F 4D 24 54 44 45 00083
00084 P.AAM: .ASCII \EDTSM_NOCREATE\<0><0>
46 5F 44 4E 41 4D 4D 4F 43 5F 4B 24 54 44 45 00093
00094 P.AAN: .ASCII \EDTSK_COMMAND_FILE\<0><0>
4C 49 46 5F 54 55 50 4E 49 5F 4B 24 54 44 45 000A3
000A8 P.AAO: .ASCII \EDTSK_INPUT_FILE\
55 50 4E 49 5F 4E 45 50 4F 5F 4B 24 54 44 45 000B7
000B8 P.AAP: .ASCII \EDTSK_OPEN_INPUT\
000C7
000C8 P.AAQ: .ASCII \EDTSK_GET\<0><0><0>
00 00 00 54 45 47 5F 4B 24 54 44 45 000D4 P.AAR: .ASCII \EDTSK_CLOSE\<0>
00 45 53 4F 4C 43 5F 4B 24 54 44 45 000E0 P.AAS: .ASCII \EDT$EDIT\
00 00 4F 49 54 49 44 45 24 54 44 45 000E8 P.AAT: .ASCII \EDT$FILEIO\<0><0>
000F4 P.AAV: .ASCII \EDTSHR\
000FA .BLKB 2
000FC P.AAU: .LONG 6
00000006 00100 .ADDRESS P.AAV
44 4E 41 4D 4D 4F 43 00104 P.AAX: .ASCII \COMMAND\
0010B .BLKB 1
00000007 0010C P.AAW: .LONG 7
00000000' 00110 .ADDRESS P.AAX
45 54 41 45 52 43 00114 P.AAZ: .ASCII \CREATE\
0011A .BLKB 2
00000006 0011C P.AAY: .LONG 6
00000000' 00120 .ADDRESS P.AAZ
54 55 50 4E 49 00124 P.ABB: .ASCII \INPUT\
00129 .BLKB 3
00000005 0012C P.ABA: .LONG 5
00000000' 00130 .ADDRESS P.ABB
4C 41 4E 52 55 4F 4A 00134 P.ABD: .ASCII \JOURNAL\
0013B .BLKB 1
00000007 0013C P.ABC: .LONG 7
00000000' 00140 .ADDRESS P.ABD
54 55 50 54 55 4F 00144 P.ABF: .ASCII \OUTPUT\
0014A .BLKB 2
00000006 0014C P.ABE: .LONG 6
00000000' 00150 .ADDRESS P.ABF
44 41 45 52 00154 P.ABH: .ASCII \READ\
```

```
00000004 00158 P.ABG: .LONG 4
00000000' 0015C .ADDRESS P.ABH
52 45 56 4F 43 45 52 00160 P.ABJ: .ASCII \RECOVER\
00167 .BLKB 1
00000007 00168 P.ABI: .LONG 7
00000000' 0016C .ADDRESS P.ABJ
52 48 53 00170 P.ABL: .ASCII \SHR\
00173 .BLKB 1
00000003 00174 P.ABK: .LONG 3
00000000' 00178 .ADDRESS P.ABL
54 49 44 45 24 0017C P.ABN: .ASCII \EDIT\
00181 .BLKB 3
00000005 00184 P.ABM: .LONG 5
00000000' 00188 .ADDRESS P.ABN
52 45 4C 44 4E 41 48 24 55 50 54 0018C P.ABP: .ASCII \TPUSHANDLER\
00197 .BLKB 1
0000000B 00198 P.ABO: .LONG 11
00000000' 0019C .ADDRESS P.ABP
```

.PSECT EDT_NAMES,NOWRT,2

```
00000 EDT_NAMES HEAD:
00000000' .BLKB 0
0000000D 00000 M_RECOVER:
00000000' 00004 .LONG 13
0000000F 00008 M_NOJOURNAL: .ADDRESS P.AAI
00000000' 0000C .LONG 15
0000000E 00010 M_NOOUTPUT: .ADDRESS P.AAJ
00000000' 00014 .LONG 14
0000000F 00018 M_NOCOMMAND: .ADDRESS P.AAK
00000000' 0001C .LONG 15
0000000E 00020 M_NOCREATE: .ADDRESS P.AAL
00000000' 00024 .LONG 14
00000012 00028 K_COMMAND_FILE: .ADDRESS P.AAM
00000000' 0002C .LONG 18
00000010 00030 K_INPUT_FILE: .ADDRESS P.AAN
00000000' 00034 .LONG 16
00000010 00038 K_OPEN_INPUT: .ADDRESS P.AAO
00000000' 0003C .LONG 16
00000009 00040 K_GET: .ADDRESS P.AAP
00000000' 00044 .LONG 9
0000000B 00048 K_CLOSE: .ADDRESS P.AAQ
00000000' 0004C .LONG 11
00000008 00050 EDIT: .ADDRESS P.AAR
00000000' 00054 .LONG 8
0000000A 00058 FILEIO: .ADDRESS P.AAS
00000000' 0005C .LONG 10
00000000' .ADDRESS P.AAT
```

.PSECT EDT_ADDRESSES,NOWRT,2

```
00000 EDT_ADDR_HEAD:
      .BLKB 0
00000000' 00000 M_RECOVER_ADDR:
      .ADDRESS EDT_M_RECOVER
00000000' 00004 M_NOJOURNAL_ADDR:
      .ADDRESS EDT_M_NOJOURNAL
00000000' 00008 M_NOOUTPUT_ADDR:
      .ADDRESS EDT_M_NOOUTPUT
00000000' 0000C M_NOCOMMAND_ADDR:
      .ADDRESS EDT_M_NOCOMMAND
00000000' 00010 M_NOCREATE_ADDR:
      .ADDRESS EDT_M_NOCREATE
00000000' 00014 K_COMMAND_FILE_ADDR:
      .ADDRESS EDT_K_COMMAND_FILE
00000000' 00018 K_INPUT_FILE_ADDR:
      .ADDRESS EDT_K_INPUT_FILE
00000000' 0001C K_OPEN_INPUT_ADDR:
      .ADDRESS EDT_K_OPEN_INPUT
00000000' 00020 K_GET_ADDR:
      .ADDRESS EDT_K_GET
00000000' 00024 K_CLOSE_ADDR:
      .ADDRESS EDT_K_CLOSE
00000000' 00028 EDIT_ADDR:
      .ADDRESS EDT_EDIT
00000000' 0002C FILEIO_ADDR:
      .ADDRESS EDT_FILEIO
00000000 00030 EDT_ADDR_END:
      .LONG 0
```

.PSECT \$OWNS\$,NOEXE,2

```
00000 COMNOSUM:
      .BLKB 1
00001 COMNOFILE:
      .BLKB 1
00002 COMFILCNT:
      .BLKB 1
00003
      .BLKB 1
00# 00004 INPUT_DESC:
      .BYTE 0[2]
02 0E 00006
      .BYTE 14, 2
      .BLKB 4
00# 0000C COMMAND_DESC:
      .BYTE 0[2]
02 0E 0000E
      .BYTE 14, 2
      .BLKB 4
00# 00014 JOURNAL_DESC:
      .BYTE 0[2]
02 0E 00016
      .BYTE 14, 2
      .BLKB 4
00# 0001C OUTPUT_DESC:
      .BYTE 0[2]
02 0E 0001E
      .BYTE 14, 2
      .BLKB 4
00024 XYZ_HANDLER:
      .BLKB 4
```

00028 EDT_M_RECOVER:
 .BLKB 4
0002C EDT_M_NOJOURNAL:
 .BLKB 4
00030 EDT_M_NOOUTPUT:
 .BLKB 4
00034 EDT_M_NOCOMMAND:
 .BLKB 4
00038 EDT_M_NOCREATE:
 .BLKB 4
0003C EDT_K_COMMAND_FILE:
 .BLKB 4
00040 EDT_K_INPUT_FILE:
 .BLKB 4
00044 EDT_K_OPEN_INPUT:
 .BLKB 4
00048 EDT_K_GET:
 .BLKB 4
0004C EDT_K_CLOSE:
 .BLKB 4
00050 EDT_EDIT:
 .BLKB 4
00054 EDT_FILEIO:
 .BLKB 4

DYN_DESC=	JOURNAL_DESC
DYN_DESC_2=	COMMAND_DESC
NL_DESC=	P.AAA
NO_FILE_DESC=	P.AAC
SYSIN_DESC=	P.AAE
JOU_FILE_DESC=	P.AAG
SD_EDTSHR=	P.AAU
SD_COMMAND=	P.AAW
SD_CREATE=	P.AAY
SD_INPUT=	P.ABA
SD_JOURNAL=	P.ABC
SD_OUTPUT=	P.ABE
SD_READ=	P.ABG
SD_RECOVER=	P.ABI
.EXTRN	CLIS_NEGATED, CLIS_LOCNEG
.EXTRN	MAIL\$C_TMP_PRO, SMGS_EOF
.EXTRN	MAIL\$M_MYPID, MAIL\$W_MSG_RSIZ
.EXTRN	MAIL\$M_MSG_RADR
.EXTRN	MAIL\$M_MSG_STS, MAIL\$GL_FLAGS
.EXTRN	MAIL\$SPAWN_CMDS
.EXTRN	MAIL\$M_SMG_KEYBOARD
.EXTRN	MAIL\$Q_INPTRN, MAIL\$Q_EDITNAM_DESC
.EXTRN	MAIL\$Q_CALEDTNAM
.EXTRN	MAIL\$Q_USERNAME
.EXTRN	CLISDCE_PARSE, CLISDISPATCH
.EXTRN	CLISGET_VALUE, CLISPRESENT
.EXTRN	LIB\$GET_INPUT, LIB\$PUT_OUTPUT
.EXTRN	LIB\$SPAWN, MAIL\$DECR_NEWMAIL
.EXTRN	MAIL\$DISABLE_CTRLC
.EXTRN	MAIL\$EXTRACT_MESSAGE
.EXTRN	MAIL\$GET_MSG, MAIL\$GET_I_MSG
.EXTRN	MAIL\$GETMSG, MAIL\$LOAD_LBRSHR

			01FC 00000		.EXTRN	MAIL\$NEW MSG, MAIL\$PUT_OUTPUT	
					.EXTRN	MAIL\$REWIND I MSG	
					.EXTRN	SMG\$READ STRING	
					.EXTRN	STR\$CONCAT, STR\$COPY DX	
					.EXTRN	STR\$FREE1 DX, UTIL\$REPORT_IO_ERROR	
					.EXTRN	LIB\$FIND_IMAGE_SYMBOL	
					.PSECT	\$CODES, NOWRT, 2	
					.ENTRY	MAIL\$LOAD EDT, Save R2,R3,R4,R5,R6,R7,R8	0405
58	00000000G	00	9E 00002		MOVAB	STR\$CONCAT, R8	
57	00000000G	00	9E 00009		MOVAB	MAIL\$Q_CALEDTNAM, R7	
56	00000000G	00	9E 00010		MOVAB	MAIL\$GL_FLAGS, R6	
55	00000000G	00	9E 00017		MOVAB	LIB\$FIND_IMAGE_SYMBOL, R5	
54	FF3A	CF	9E 0001E		MOVAB	SD EDTSHR, R4	
53	00000000'	00	9E 00023		MOVAB	DYN_DESC, R3	
	01	A6	95 0002A		TSTB	MAIL\$GL_FLAGS+1	0417
		0E	19 0002D		BLSS	1\$	
	007E811A	8F	DD 0002F		PUSHL	#8290586	0418
00000000G	00	01	FB 00035		CALLS	#1, LIB\$SIGNAL	
			04 0003C		RET		
	3C	A3	D5 0003D	1\$:	TSTL	EDT_EDIT	0420
		6B	12 00040		BNEQ	4\$	
00000000G	00	00	FB 00042		CALLS	#0, MAIL\$LOAD_LBRSHR	0427
64		50	E9 00049		BLBC	STATUS, 5\$	
25	02	A6	E9 0004C		BLBC	MAIL\$GL_FLAGS+2, 3\$	0429
		52	00050		CLRL	EDTINDEX	0431
50	00000000'	0042	D0 00052	2\$:	MOVL	EDT_ADDR_HEAD[EDTINDEX], R0	0432
		51	13 0005A		BEQL	4\$	
		50	DD 0005C		PUSHL	R0	0436
50		01	78 0005E		ASHL	#1, EDTINDEX, R0	
	00000000'	0040	DF 00062		PUSHAL	EDT_NAMES_HEAD[R0]	
		54	DD 00069		PUSHL	R4	
65		03	FB 0006B		CALLS	#3, LIB\$FIND_IMAGE_SYMBOL	
3F		50	E9 0006E		BLBC	STATUS, 5\$	
		52	D6 00071		INCL	EDTINDEX	0437
		DD	11 00073		BRB	2\$	0432
	78	A4	9F 00075	3\$:	PUSHAB	P.ABK	0441
	0088	8F	BB 00078		PUSHR	#^M<R3,R7>	
68		03	FB 0007C		CALLS	#3, STR\$CONCAT	
	0088	C4	9F 0007F		PUSHAB	P.ABM	0442
		57	DD 00083		PUSHL	R7	
	F8	A3	9F 00085		PUSHAB	DYN_DESC_2	
68		03	FB 00088		CALLS	#3, STR\$CONCAT	
	3C	A3	9F 0008B		PUSHAB	EDT_EDIT	0444
	F8	A3	9F 0008E		PUSHAB	DYN_DESC_2	
		53	DD 00091		PUSHL	R3	
65		03	FB 00093		CALLS	#3, LIB\$FIND_IMAGE_SYMBOL	
17		50	E9 00096		BLBC	STATUS, 5\$	
OF	02	A6	E1 00099		BBC	#1, MAIL\$GL_FLAGS+2, 4\$	0445
		01	E1 0009E		PUSHAB	XYZ_HANDLER	0448
	10	A3	9F 000A1		PUSHAB	P.ABO	
	009C	C4	9F 000A5		PUSHL	R3	
		53	DD 000A7		CALLS	#3, LIB\$FIND_IMAGE_SYMBOL	
65		03	FB 000AA		BLBC	STATUS, 5\$	
03		50	E9 000AD	4\$:	MOVL	#1, R0	0451
50		01	D0 000B0	5\$:	RET		0452

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

F 13
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1 Page 12
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; Routine Size: 177 bytes, Routine Base: \$CODE\$ + 01A0

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40

```

: 311      0453 1 ROUTINE CHECK_MESSAGE_FILE(OUT_DESC) =
: 312      0454 1 ++
: 313      0455 1 FUNCTIONAL DESCRIPTION:
: 314      0456 1
: 315      0457 1 This routine determines whether the specified file was successfully
: 316      0458 1 created and returns success if it was, and MAIL$_SENDABORT if not
: 317      0459 1
: 318      0460 1 INPUTS:
: 319      0461 1
: 320      0462 1 OUT_DESC is a descriptor for the file to check
: 321      0463 1 --
: 322      0464 2 BEGIN
: 323      0465 2
: 324      0466 2 MAP
: 325      0467 2 OUT_DESC : REF $BBLOCK;
: 326      0468 2
: 327      0469 2 LOCAL
: 328      0470 2 FAB : $FAB_DECL,
: 329      0471 2 NAM : $NAM_DECL,
: 330      0472 2 NAMESS : $BBLOCK[NAM$_MAXRSS],
: 331      0473 2 STATUS;
: 332      0474 2
: 333      P 0475 2 $FAB_INIT(FAB=FAB,
: 334      P 0476 2 FNS=.OUT_DESC[DSC$_LENGTH],
: 335      P 0477 2 FNA=.OUT_DESC[DSC$_POINTER],
: 336      0478 2 NAM=NAM);
: 337      0479 2
: 338      P 0480 2 $NAM_INIT(NAM=NAM,
: 339      P 0481 2 ESS=NAM$_MAXRSS,
: 340      P 0482 2 ESA=NAMESS,
: 341      P 0483 2 RSS=NAM$_MAXRSS,
: 342      0484 2 RSA=NAMESS);
: 343      0485 2
: 344      0486 2 If the PARSE or SEARCH fails, then return SENDABORT, otherwise return
: 345      0487 2 success
: 346      0488 2
: 347      0489 3 IF NOT $PARSE(FAB=FAB)
: 348      0490 3 OR NOT $SEARCH(FAB=FAB)
: 349      0491 2 THEN RETURN MAIL$_SENDABORT
: 350      0492 2 ELSE RETURN TRUE
: 351      0493 2
: 352      0494 1 END;
```

.EXTRN SYS\$PARSE, SYS\$SEARCH

003C 00000 CHECK_MESSAGE_FILE:

0050	8F	00	5E	FE50	CE	9E	00002	.WORD	Save R2,R3,R4,R5	0453
			6E		00	2C	00007	MOVAB	-432(SP), SP	
				B0	AD		0000E	MOVC5	#0, (SP), #0, #80, \$RMS_PTR	0478
		B0	AD	5003	8F	B0	00010	MOVW	#20483, \$RMS_PTR	
		C6	AD		02	90	00016	MOVB	#2, \$RMS_PTR+22	
		CF	AD		02	90	0001A	MOVB	#2, \$RMS_PTR+31	
		D8	AD	FF50	CD	9E	0001E	MOVAB	NAM, \$RMS_PTR+40	
			50	04	AC	D0	00024	MOVL	OUT_DESC, R0	

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

H 13
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14-Sep-1984 12:42:17

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DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1

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0060	8F	00	DC E4	AD AD 6E	04	A0 60 00	D0 90 2C	00028 0002D 00031	MOVL MOVB MOVCS	4(R0), \$RMS_PTR+44 (R0), \$RMS_PTR+52 #0, (SP), #0, #96, \$RMS_PTR	:	0484
			FF50 FF52 FF54 FF5A FF5C	CD CD CD CD CD	Ff50 6002	CD 8F 01 6E 01 6E	B0 8E 9E 8E 9E	00038 0003B 00042 00047 0004C 00051	MOVW MNEGB MOVAB MNEGB MOVAB	#24578, \$RMS_PTR #1, \$RMS_PTR+2 NAMESS, \$RMS_PTR+4 #1, \$RMS_PTR+10 NAMESS, \$RMS_PTR+12	:	
		00000000G		00 0D	B0	AD 01 50	9F FB E9	00056 00059 00060	PUSHAB CALLS BLBC	FAB #1, SYSSPARSE R0, 1\$:	0489
		00000000G		00 08 50	B0	AD 01 50	9F FB E8	00063 00066 0006D	PUSHAB CALLS BLBS	FAB #1, SYSSSEARCH R0, 2\$:	0490
				50 007E805A		8F	D0	00070 1\$:	MOVL	#8290394, R0	:	0492
				50		01	D0	00077 2\$:	RET		:	
						04	D0	00078	MOVL	#1, R0	:	
						04	0007B		RET		:	0494

; Routine Size: 124 bytes, Routine Base: \$CODE\$ + 0251

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

I 13
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```
: 354      0495 1 ROUTINE SEND_STRING (DESC) =  
: 355      0496 1 |++  
: 356      0497 1 | FUNCTIONAL DESCRIPTION:  
: 357      0498 1 |  
: 358      0499 1 |         Write string to SYS$OUTPUT  
: 359      0500 1 |  
: 360      0501 1 |--  
: 361      0502 2 BEGIN  
: 362      0503 2  
: 363      0504 2 LIB$PUT_OUTPUT(.DESC);  
: 364      0505 2 RETURN 0  
: 365      0506 1 END;
```

```
                                0000 00000 SEND_STRING:  
                                .WORD  
                                04 AC DD 00002      PUSHL      Save nothing      : 0495  
                                01 FB 00005      CALLS      DESC              : 0504  
                                50 D4 0000C      CLRL       #1, LIB$PUT_OUTPUT  
                                04 0000E      RET          R0                  : 0505  
                                           : 0506
```

; Routine Size: 15 bytes, Routine Base: \$CODE\$ + 02CD

```
367 0507 1 ROUTINE EDT_HANDLER (SIGARG, MECHARG) =
368 0508 1 ++
369 0509 1 FUNCTIONAL DESCRIPTION:
370 0510 1
371 0511 1 Handler to handle EDT signalled errors. Prevents EDT's fatal
372 0512 1 errors from exiting MAIL
373 0513 1 --
374 0514 2 BEGIN
375 0515 2 MAP
376 0516 2 SIGARG : REF $BBLOCK,
377 0517 2 MECHARG : REF $BBLOCK;
378 0518 2
379 0519 2 BUILTIN
380 0520 2 CALLG,AP;
381 0521 2
382 0522 2 BIND
383 0523 2 SIGNAME = SIGARG[CHFSL_SIG_NAME] : $BBLOCK;
384 0524 2
385 0525 2 IF .SIGNAME EQL $$$_UNWIND
386 0526 2 THEN RETURN $$$_CONTINUE;
387 0527 2
388 0528 2 IF .MAIL$GL_FLAGS[MAIF_V_EDTXYZ]
389 0529 2 THEN RETURN CALLG(.AP, .XYZ_HANDLER);
390 0530 2
391 0531 2 IF NOT .SIGNAME
392 0532 2 THEN BEGIN
393 0533 3 SIGARG[CHFSL_SIG_ARGS] = .SIGARG[CHFSL_SIG_ARGS] - 2;
394 P 0534 3 $PUTMSG(MSGVEC=SIGARG[CHFSL_SIG_ARGS],
395 0535 3 ACTRN = SEND_STRING);
396 0536 3 SIGARG[CHFSL_SIG_ARGS] = .SIGARG[CHFSL_SIG_ARGS] + 2;
397 0537 3 SIGNAME[STSSV_SEVERITY] = STSSK_WARNING;
398 0538 2 END;
399 0539 2
400 0540 2 SETUNWIND();
401 0541 2 RETURN 0
402 0542 1 END;
```

.EXTRN SYSS\$PUTMSG

```
0004 00000 EDT_HANDLER:
52 04 AC 04 C1 00002 .WORD Save R2
00000920 8F 62 D1 00007 ADDL3 #4, SIGARG, R2
0525 50 04 12 0000E CMPL (R2), #2336
0526 01 D0 00010 BNEQ 1$
0528 0B 00000000G 00 01 E1 00014 1$: BBC #1, MAIL$GL_FLAGS+2, 2$
0529 51 00000000' 00 00 D0 0001C MOVL XYZ_HANDLER, R1
61 6C FA 00023 CALLG (AP), (R1)
0531 04 1A 62 E8 00027 2$: BLBS (R2), 3$
0533 04 BC 02 C2 0002A SUBL2 #2, @SIGARG
0535 BE AF 7E 7C 0002E CLRQ -(SP)
04 AC DD 00030 PUSHAB SEND_STRING
04 AC DD 00033 PUSHL SIGARG
```

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

K 13
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VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1

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00000000G 00
04 BC
62
00000000G 00

04 FB 00036
02 CO 0003D
07 8A 00041
7E 7C 00044 3\$:
02 FB 00046
50 D4 0004D
04 0004F

CALLS #4, SYSSPUTMSG
ADDL2 #2, @SIGARG
BICB2 #7, (R2)
CLRQ -(SP)
CALLS #2, SYSSUNWIND
CLRL R0
RET

: 0536
: 0537
: 0540
: 0541
: 0542

; Routine Size: 80 bytes, Routine Base: \$CODE\$ + 02DC

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```
: 404 0543 1 ROUTINE EDT_HANDLER_2 (SIGARG, MECHARG) =
: 405 0544 1 |++
: 406 0545 1 | FUNCTIONAL DESCRIPTION:
: 407 0546 1 |
: 408 0547 1 |         Handler to handle EDT signalled errors. Prevents EDT's fatal
: 409 0548 1 |         errors from exiting MAIL. This handler does not print the message.
: 410 0549 1 | --
: 411 0550 2 BEGIN
: 412 0551 2 MAP
: 413 0552 2     SIGARG : REF $BBLOCK,
: 414 0553 2     MECHARG : REF $BBLOCK;
: 415 0554 2
: 416 0555 2 BIND
: 417 0556 2     SIGNAME = SIGARG[CHF$$_SIG_NAME] : $BBLOCK;
: 418 0557 2
: 419 0558 2 IF .SIGNAME EQL $$$UNWIND
: 420 0559 2     THEN RETURN $$$CONTINUE;
: 421 0560 2
: 422 0561 2 IF NOT .SIGNAME
: 423 0562 2     THEN SIGNAME[ST$$_SEVERITY] = ST$$_WARNING;
: 424 0563 2
: 425 0564 2 SETUNWIND();
: 426 0565 2 RETURN 0
: 427 0566 1 END;
```

0000 00000 EDT_HANDLER 2:			
50	04	AC	04 C1 00002 .WORD Save nothing ; 0543
	00000920	8F	60 D1 00007 ADDL3 #4, SIGARG, R0 ; 0556
		50	04 12 0000E CMPL (R0), #2336 ; 0558
		03	01 D0 00010 BNEQ 1\$; 0559
		60	04 00013 MOVL #1, R0 ; 0561
		07	60 E8 00014 1\$: BLBS (R0), 2\$; 0562
		7E	07 8A 00017 BICB2 #7, (R0) ; 0564
00000000G	00	02	7E 7C 0001A 2\$: CLRQ -(SP) ; 0565
		50	02 FB 0001C CALLS #2, SYSSUNWIND ; 0566
		04	50 D4 00023 CLRL R0 ;
			04 00025 RET ;

; Routine Size: 38 bytes, Routine Base: \$CODE\$ + 032C

```
: 429      0567 1 ROUTINE CALL_EDT_FILEIO =  
: 430      0568 1 ++  
: 431      0569 1 FUNCTIONAL DESCRIPTION:  
: 432      0570 1  
: 433      0571 1      Calls EDT$FILEIO.  If attempting to open the user's EDTINI, enable  
: 434      0572 1      a condition handler so that the caller of this routine can get control  
: 435      0573 1      back.  
: 436      0574 1  
: 437      0575 2 BEGIN  
: 438      0576 2  
: 439      0577 2 BUILTIN  
: 440      0578 2     CALLG,  
: 441      0579 2     AP,  
: 442      0580 2     FP;  
: 443      0581 2  
: 444      0582 2  
: 445      0583 2 We only care about user's EDTINI not being found.  Let SIGNAL of FNF  
: 446      0584 2 on system EDTINI go through to EDT.  
: 447      0585 2  
: 448      0586 2 IF .COMFILCNT EQL 1  
: 449      0587 2     THEN .FP = EDT_HANDLER_2;  
: 450      0588 2  
: 451      0589 2 RETURN CALLG(.AP,.EDT_FILEIO)  
: 452      0590 1 END;
```

```
0000 00000 CALL_EDT_FILEIO:  
01 00000000' 00 91 00002 .WORD Save nothing  
04 12 00009 CMPB COMFILCNT, #1  
6D CC AF 9E 0000B BNEQ 1$  
51 00000000' 00 D0 0000F 1$: MOVAB EDT_HANDLER_2, (FP)  
61 6C FA 00016 MOVL EDT_FILEIO, R1  
04 00019 CALLG (AP), (R1)  
RET
```

```
: 0567  
: 0586  
: 0587  
: 0589  
: 0590
```

; Routine Size: 26 bytes, Routine Base: \$CODE\$ + 0352

```
454 0591 1 ROUTINE MAIL$EDT_FILEIO(FILE_CODE,FILE_STREAM,RECORD_DESC,RHB_DESC) =
455 0592 1 ++
456 0593 1 FUNCTIONAL DESCRIPTION:
457 0594 1
458 0595 1 This routine is called by EDT for all fileio. It passes on most
459 0596 1 calls, except for two special cases. For the second call to open
460 0597 1 the command
461 0598 1
462 0599 1 --
463 0600 2 BEGIN
464 0601 2
465 0602 2 BUILTIN
466 0603 2 AP,
467 0604 2 CALLG;
468 0605 2
469 0606 2 MAP
470 0607 2 FILE_CODE : REF VECTOR[.BYTE], !Assume codes are all bytes
471 0608 2 FILE_STREAM : REF VECTOR[.BYTE], ! and stream numbers
472 0609 2 RECORD_DESC : REF $BBLOCK,
473 0610 2 RHB_DESC : REF $BBLOCK;
474 0611 2
475 0612 2 LOCAL
476 0613 2 STATUS;
477 0614 2
478 0615 2
479 0616 2 ! If opening the main input file, set the default file type of .TXT
480 0617 2
481 0618 2 IF .FILE_STREAM[0] EQL .EDT_K_INPUT_FILE
482 0619 2 AND .FILE_CODE[0] EQL .EDT_K_OPEN_INPUT
483 0620 3 THEN BEGIN
484 0621 3 STR$COPY DX(.RHB_DESC,$DESCRIPTOR('.TXT'));
485 0622 3 RETURN CALLG(.AP,.EDT_FILEIO);
486 0623 3 END;
487 0624 2
488 0625 2 ! Everything except command file i/o, call EDT$FILEIO
489 0626 2
490 0627 2 IF .FILE_STREAM[0] NEQ .EDT_K_COMMAND_FILE
491 0628 2 THEN RETURN CALLG(.AP,.EDT_FILEIO)
492 0629 3 ELSE BEGIN
493 0630 3
494 0631 3 ! If opening the command file, set flags and call special routine
495 0632 3
496 0633 3 IF .FILE_CODE[0] EQL .EDT_K_OPEN_INPUT
497 0634 4 THEN BEGIN
498 0635 4 COMNOSUM = 0;
499 0636 4 COMNOFILE = 0;
500 0637 4 COMFILCNT = .COMFILCNT + 1; !Count the edtini
501 0638 4
502 0639 4 ! This call will not return if there is a failure opening the
503 0640 4 SYSTEM-wide EDTINI, but will return if there is a failure
504 0641 4 opening the user's EDTINI
505 0642 4
506 0643 4 STATUS = CALLG(.AP,CALL_EDT_FILEIO);
507 0644 4 IF .COMFILCNT EQL 1 !If opening user's edtini
508 0645 5 THEN BEGIN
509 0646 5 COMNOSUM = 1; !Flag need to output SET NOSUMMARY
510 0647 5 IF NOT .STATUS !If file not there, pretend it was
```

```
: 511      0648 5      THEN COMNOFILE = STATUS = 1; !Return ok so EDT will do a GET
: 512      0649 4      END;
: 513      0650 4      RETURN .STATUS
: 514      0651 4      END
: 515      0652 4      ELSE BEGIN
: 516      0653 4      |
: 517      0654 4      | a code of other than OPEN_INPUT...
: 518      0655 4      |
: 519      0656 4      IF .FILE_CODE[0] EQL .EDT_K_GET
: 520      0657 5      THEN BEGIN
: 521      0658 5      |
: 522      0659 5      | If we need to send the SET NOSUMMARY line, do it, and clear flag
: 523      0660 5      |
: 524      0661 5      IF .COMNOSUM
: 525      0662 6      THEN BEGIN
: 526      0663 6      STR$COPY_DX(.RECORD_DESC,$DESCRIPTOR('SET NOSUMMARY'));
: 527      0664 6      COMNOSUM = 0;
: 528      0665 6      RETURN 1;
: 529      0666 5      END;
: 530      0667 5      IF .COMNOFILE      !If there was no file, return eof now
: 531      0668 5      THEN RETURN RMSS$ EOF
: 532      0669 5      ELSE RETURN CALLG(.AP,.EDT_FILEIO); !Otherwise, just get record
: 533      0670 4      END;
: 534      0671 4      IF .FILE_CODE[0] EQL .EDT_K_CLOSE
: 535      0672 4      AND .COMNOFILE
: 536      0673 4      THEN RETURN 1      !If closing non-ex file, pretend ok
: 537      0674 4      ELSE RETURN CALLG(.AP,.EDT_FILEIO); !EDT will close real file
: 538      0675 3      END;
: 539      0676 2      END;
: 540      0677 1      END;
```

```
54 58 54 2E 0036C P.ABR: .ASCII \.TXT\
00000004 00370 P.ABQ: .LONG 4
00000000' 00374 .ADDRESS P.ABR
59 52 41 4D 4D 55 53 4F 4E 20 54 45 53 00378 P.ABT: .ASCII \SET NOSUMMARY\
00385 .BLKB 3
0000000D 00388 P.ABS: .LONG 13
00000000' 0038C .ADDRESS P.ABT
```

```
001C 0000 MAIL$EDT_FILEIO:
54 00000000G 00 9E 00002 .WORD Save R2,R3,R4 : 0591
53 D4 AF 9E 00009 MOVAB STR$COPY_DX, R4
52 00000000' 00 9E 0000D MOVAB P.ABQ, R3
08 00 ED 00014 MOVAB COMNOSUM, R2
08 13 12 0001B CMPZV #0, #8, @FILE_STREAM, EDT_K_INPUT_FILE : 0618
08 00 ED 0001D BNEQ 1$
0A 12 00024 CMPZV #0, #8, @FILE_CODE, EDT_K_OPEN_INPUT : 0619
53 DD 00026 BNEQ 1$
64 10 AC DD 00028 PUSHL R3 : 0621
02 FB 0002B PUSHL RHB_DESC
66 11 0002E CALLS #2, STR$COPY_DX
3C A2 08 BC 08 00 ED 00030 1$: BRB 6$ : 0622
CMPZV #0, #8, @FILE_STREAM, EDT_K_COMMAND_FILE : 0627
```

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

C 14
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1

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44	A2	04	BC	08	5D 12 00037	BNEQ 6\$:	
					00 ED 00039	CMPZV #0, #8, @FILE_CODE, EDT_K_OPEN_INPUT	:	0633
					1E 12 00040	BNEQ 2\$:	
					62 B4 00042	CLRW COMNOSUM	:	0635
					A2 96 00044	INCB COMFILCNT	:	0637
					6C FA 00047	CALLG (AP), CALL_EDT_FILEIO	:	0643
					A2 91 0004C	CMPB COMFILCNT, #1	:	0644
					4B 12 00050	BNEQ 7\$:	
					01 90 00052	MOVB #1, COMNOSUM	:	0646
					50 E8 00055	BLBS STATUS, 7\$:	0647
					01 D0 00058	MOVL #1, STATUS	:	0648
					01 90 0005B	MOVB #1, COMNOFILE	:	
					04 0005F	RET	:	0652
48	A2	04	BC	08	00 ED 00060 2\$:	CMPZV #0, #8, @FILE_CODE, EDT_K_GET	:	0656
					1C 12 00067	BNEQ 4\$:	
					0D 62 E9 00069	BLBC COMNOSUM, 3\$:	0661
					A3 9F 0006C	PUSHAB P.ABS	:	0663
					AC DD 0006F	PUSHL RECORD_DESC	:	
					02 FB 00072	CALLS #2, STR\$COPY_DX	:	
					62 94 00075	CLRB COMNOSUM	:	0664
					19 11 00077	BRB 5\$:	0665
					A2 E9 00079 3\$:	BLBC COMNOFILE, 6\$:	0667
					50 0001827A 8F D0 0007D	MOVL #98938, R0	:	0669
					04 00084	RET	:	
4C	A2	04	BC	08	00 ED 00085 4\$:	CMPZV #0, #8, @FILE_CODE, EDT_K_CLOSE	:	0671
					08 12 0008C	BNEQ 6\$:	
					A2 E9 0008E	BLBC COMNOFILE, 6\$:	0672
					50 01 D0 00092 5\$:	MOVL #1, R0	:	0674
					04 00095	RET	:	
					A2 D0 00096 6\$:	MOVL EDT_FILEIO, R1	:	
					61 6C FA 0009A	CALLG (AP), (R1)	:	
					04 0009D 7\$:	RET	:	0677

; Routine Size: 158 bytes, Routine Base: \$CODE\$ + 0390

```
: 542      0678 1 ROUTINE EDT_XLATE (C_DESC) =  
: 543      0679 1 ++  
: 544      0680 1 | FUNCTIONAL DESCRIPTION:  
: 545      0681 1 |  
: 546      0682 1 |         Process the XLATE command. Specifically, SPAWN and ATTACH  
: 547      0683 1 |  
: 548      0684 1 | --  
: 549      0685 2 BEGIN  
: 550      0686 2 MAP  
: 551      0687 2     C_DESC : REF $BBLOCK;  
: 552      0688 2  
: 553      0689 2 ENABLE EDT_HANDLER_2;  
: 554      0690 2  
: 555      0691 2 IF CLISDCL_PARSE(.C_DESC,MAIL$SPAWN_CMDS,LIB$GET_INPUT)  
: 556      0692 2     THEN CLISDISPATCH();  
: 557      0693 2  
: 558      0694 2 STR$FREE1_DX(.C_DESC);  
: 559      0695 2  
: 560      0696 2 RETURN TRUE  
: 561      0697 1 END;
```

0000 00000 EDT_XLATE:						
	6D	002F	CF DE 00002	.WORD	Save nothing	: 0678
		00000000G	00 9F 00007	MOVAL	2\$, (FP)	: 0685
		00000000G	00 9F 0000D	PUSHAB	LIB\$GET_INPUT	: 0691
		04	AC DD 00013	PUSHAB	MAIL\$SPAWN_CMDS	
00000000G	00		03 FB 00016	PUSHL	C_DESC	
	07		50 E9 0001D	CALLS	#3, CLISDCL_PARSE	
00000000G	00		00 FB 00020	BLBC	R0, 1\$	
		04	AC DD 00027	CALLS	#0, CLISDISPATCH	: 0692
00000000G	00		01 FB 0002A	PUSHL	C_DESC	: 0694
	50		01 D0 00031	CALLS	#1, STR\$FREE1_DX	
			04 00034	MOVL	#1, R0	: 0696
			0000 00035	RET		: 0697
			7E D4 00037	.WORD	Save nothing	: 0685
			5E DD 00039	CLRL	-(SP)	
FEBA	7E	04	AC 7D 0003B	PUSHL	SP	
	CF		03 FB 0003F	MOVQ	4(AP), -(SP)	
			04 00044	CALLS	#3, EDT_HANDLER_2	
				RET		

; Routine Size: 69 bytes, Routine Base: \$CODE\$ + 042E

```
563 0698 1 GLOBAL ROUTINE MAIL$EDIT(IN_NAME,OUT_NAME) =
564 0699 1
565 0700 1 ++
566 0701 1 FUNCTIONAL DESCRIPTION:
567 0702 1
568 0703 1 This routine is called to enter and edit a mail message.
569 0704 1
570 0705 1 INPUTS:
571 0706 1
572 0707 1 IN_NAME = Address of input file name descriptor.
573 0708 1 OUT_NAME = Address of output file name descriptor.
574 0709 1
575 0710 1 OUTPUTS:
576 0711 1
577 0712 1 Message copied to file OUT_NAME.
578 0713 1
579 0714 1 --
580 0715 2 BEGIN
581 0716 2 MAP
582 0717 2 IN_NAME: REF BLOCK[.BYTE], ! Input file desc
583 0718 2 OUT_NAME: REF BLOCK[.BYTE]; ! Output file desc
584 0719 2
585 0720 2 BUILTIN
586 0721 2 AP,
587 0722 2 CALLG;
588 0723 2
589 0724 2 LOCAL
590 0725 2 STATUS, ! Routine status
591 0726 2 FILEIO_BPV : VECTOR[2, LONG],
592 0727 2 XLATE_BPV : VECTOR[2, LONG],
593 0728 2 EDITCMD_BUF: BLOCK[255, BYTE], ! Edit command buffer
594 0729 2 EDITCMD_DESC: BLOCK[8, BYTE]; ! Edit command desc
595 0730 2
596 0731 2 MAIL$DISABLE_CTRLC();
597 0732 2
598 0733 2 If callable EDT requested then call EDT, otherwise create the
599 0734 2 editor subprocess.
600 0735 2
601 0736 2 IF .MAIL$GL_FLAGS[MAIF_V_CALEDT]
602 0737 3 THEN BEGIN
603 P 0738 3 IF_ERR(MAIL$LOAD_EDT();
604 0739 3 RETURN .STATUS);
605 0740 3 IF .MAIL$GL_FLAGS[MAIF_V_EDTEDT]
606 0741 4 THEN BEGIN
607 0742 4 FILEIO_BPV[0] = MAIL$EDT_FILEIO;
608 0743 4 FILEIO_BPV[1] = 0;
609 0744 4 XLATE_BPV[0] = EDT_XLATE;
610 0745 4 XLATE_BPV[1] = 0;
611 0746 4 COMF1[CNT = -1;
612 0747 6 IF NOT (STATUS=(.EDT_EDIT)((IF .IN_NAME[DSC$W_LENGTH] EQL 0
613 0748 6 THEN NL_DESC
614 0749 5 ELSE .IN_NAME),
615 0750 5 .OUT_NAME, NO FILE_DESC, JOU_FILE_DESC,
616 0751 5 %REFTO), FILEIO_BPV, 0, XLATE_BPV))
617 0752 4 THEN RETURN .STATUS;
618 0753 4 END
619 0754 4 ELSE IF NOT (STATUS = CALLG(.AP,.EDT_EDIT))
```

```

: 620      0755      3      THEN RETURN .STATUS;
: 621      0756      3      END
: 622      0757      3      ELSE BEGIN
: 623      0758      3      :
: 624      0759      3      : Create and execute the command procedure execution command.
: 625      0760      3      :
: 626      0761      3      EDITCMD_DESC[0,0,32,0] = 255;
: 627      0762      3      EDITCMD_DESC[DSC$A_POINTER] = EDITCMD_BUF;
: 628      P 0763      3      $FAO( -DESCRIPTOR('$ @!AS ''!AS'' ''!AS''),
: 629      P 0764      3      EDITCMD_DESC[DSC$W_LENGTH],
: 630      P 0765      3      EDITCMD_DESC,
: 631      P 0766      3      (IF .MAIL$GL_FLAGS[MAIF V USEREDIT]
: 632      P 0767      3      THEN .MAIL$Q_EDITNAM_DESC
: 633      P 0768      3      ELSE DESCRIPTOR('SYSS$SYSTEM:MAILEDIT.COM')),
: 634      P 0769      3      .IN_NAME,
: 635      0770      3      .OUT_NAME);
: 636      P 0771      3      IF_ERR(LIB$SPAWN(EDITCMD_DESC);,
: 637      0772      3      SIGNAL(MAIL$_EDITPROC,0,.STATUS));
: 638      0773      3      END;
: 639      0774      2      RETURN CHECK_MESSAGE_FILE(.OUT_NAME)
: 640      0775      1      END;
```

```

21 22 20 22 53 41 21 22 20 53 41 21 40 20 24 00473 P.ABV: .ASCII \ $ @!AS ''!AS'' ''!AS'\
: 22 53 41 00482
: 00485
: 00000012 00488 P.ABU: .BLKB 3
: 00000000' 0048C .LONG 18
: 4C 49 41 4D 3A 4D 45 54 53 59 53 24 53 59 53 00490 P.ABX: .ADDRESS P.ABV
: 4D 4F 43 2E 54 49 44 45 0049F .ASCII \SYSS$SYSTEM:MAILEDIT.COM\
: 004A7
: 00000017 004A8 P.ABW: .BLKB 1
: 00000000' 004AC .LONG 23
: .ADDRESS P.ABX
```

```

: 001C 00000
54 00000000G 00 9E 00002
53 FCE3 CF 9E 00009
5E FEE4 CE 9E 0000E
00000000G 00 00 FB 00013
: 01 A4 95 0001A
: 6D 18 0001D
63 00 FB 0001F
01 50 E8 00022
: 04 00025
52 00000000' 00 D0 00026 1$:
4E 02 A4 E9 0002D
F8 AD 01F0 C3 9E 00031
: FC AD D4 00037
F0 AD 028E C3 9E 0003A
: F4 AD D4 00040
00000000' 00 01 8E 00043
: F0 AD 9F 0004A
: 7E D4 0004D
F8 AD 9F 0004F
```

.EXTRN SYSS\$FAO

```

: .ENTRY MAIL$EDIT, Save R2,R3,R4
: MOVAB MAIL$GL_FLAGS, R4
: MOVAB MAIL$LOAD_EDT, R3
: MOVAB -284(SP), -SP
: CALLS #0, MAIL$DISABLE_CTRLC
: TSTB MAIL$GL_FLAGS+1
: BGEQ 6$
: CALLS #0, MAIL$LOAD_EDT
: BLBS STATUS, 1$
: RET
: MOVL EDT_EDIT, R2
: BLBC MAIL$GL_FLAGS+2, 4$
: MOVAB MAIL$EDT_FILEIO, FILEIO_BPV
: CLRL FILEIO_BPV+4
: MOVAB EDT_XLATE, XLATE_BPV
: CLRL XLATE_BPV+4
: MNEGB #1, COMFILCNT
: PUSHAB XLATE_BPV
: CLRL -(SP)
: PUSHAB FILEIO_BPV
```

```

: 0698
:
: 0731
: 0736
: 0739
:
: 0747
: 0740
: 0742
: 0743
: 0744
: 0745
: 0746
: 0747
:
```

		OC	AE	D4	00052	CLRL	12(SP)	:	0751
		OC	AE	9F	00055	PUSHAB	12(SP)	:	
		FB30	CF	9F	00058	PUSHAB	JOU_FILE_DESC	:	0747
		FAFC	CF	9F	0005C	PUSHAB	NO_FILE_DESC	:	
		08	AC	DD	00060	PUSHL	OUT_NAME	:	0750
		04	BC	B5	00063	TSTW	@IN_NAME	:	0747
			09	12	00066	BNEQ	2\$:	
	50	FAE8	CF	9E	00068	MOVAB	NL_DESC, R0	:	
			50	DD	0006D	PUSHL	R0	:	
			03	11	0006F	BRB	3\$:	
		04	AC	DD	00071	PUSHL	IN_NAME	:	0749
	62		08	FB	00074	CALLS	#8, (R2)	:	0747
	51		50	D0	00077	MOVL	R0, STATUS	:	
	61		51	E8	0007A	BLBS	STATUS, 9\$:	
			09	11	0007D	BRB	5\$:	0752
	62		6C	FA	0007F	CALLG	(AP), (R2)	:	0754
	51		50	D0	00082	MOVL	R0, STATUS	:	
	56		50	E8	00085	BLBS	R0, 9\$:	
	50		51	D0	00088	MOVL	STATUS, R0	:	0755
				04	0008B	RET		:	
	04	AE	FF	8F	9A	MOVZBL	#255, EDITCMD_DESC	:	0761
	08	AE	OC	AE	9E	MOVAB	EDITCMD_BUF, EDITCMD_DESC+4	:	0762
		7E	04	AC	7D	MOVQ	IN_NAME, -(SP)	:	0770
09	01	A4		05	E1	BBC	#5, MAIL\$GL_FLAGS+1, 7\$:	
		50	00000000G	00	9E	MOVAB	MAIL\$Q_EDITNAM_DESC, R0	:	
				05	11	BRB	8\$:	
		50	FF4C	CF	9E	MOVAB	P.ABW, R0	:	
				50	DD	PUSHL	R0	:	
			10	AE	9F	PUSHAB	EDITCMD_DESC	:	
			14	AE	9F	PUSHAB	EDITCMD_DESC	:	
			FF1F	CF	9F	PUSHAB	P.ABU	:	
00000000G	00			06	FB	CALLS	#6, SYSS\$FAO	:	
		04		AE	9F	PUSHAB	EDITCMD_DESC	:	0772
00000000G	00			01	FB	CALLS	#1, LIB\$SPAWN	:	
	11			50	E8	BLBS	STATUS, 9\$:	
				50	DD	PUSHL	STATUS	:	
				7E	D4	CLRL	-(SP)	:	
		007E8062		8F	DD	PUSHL	#8290402	:	
00000000G	00			03	FB	CALLS	#3, LIB\$SIGNAL	:	
		08		AC	DD	PUSHL	OUT_NAME	:	0774
00B1	C3			01	FB	CALLS	#1, CHECK_MESSAGE_FILE	:	
				04	000E6	RET		:	0775

; Routine Size: 231 bytes, Routine Base: \$CODE\$ + 04B0

```
0776 1 GLOBAL ROUTINE MAIL$ENTER(OUT_RAB) =
0777 1 ++
0778 1 FUNCTIONAL DESCRIPTION:
0779 1
0780 1 This routine is called to enter a mail message.
0781 1
0782 1 INPUTS:
0783 1
0784 1 OUT_RAB = Address of a RAB connected to an open output file.
0785 1
0786 1 OUTPUTS:
0787 1
0788 1 SYS$INPUT copied to file OUT_RAB.
0789 1 --
0790 2 BEGIN
0791 2 MAP
0792 2 OUT_RAB: REF BLOCK[,BYTE]; ! Output file RAB
0793 2 LOCAL
0794 2 DESC: BLOCK[8,BYTE], ! String desc
0795 2 STATUS; ! Routine status
0796 2
0797 2 IF .MAIL$GL_FLAGS[MAIF V_ITEM]
0798 2 THEN MAIL$PUT_OUTPUT(MAIL$GETMSG(MAIL$_EDIT10));
0799 2
0800 2 ! Read from input and copy to output file
0801 2
0802 2 DESC[DSC$W_LENGTH] = 0;
0803 2 DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
0804 2 DESC[DSC$B_DTYPE] = 0;
0805 2 DESC[DSC$A_POINTER] = 0;
0806 2 STATUS = TRUE;
0807 2
0808 2 OUT_RAB[RAB$L_CTX] = MAIL$_WRITEERR;
0809 2 WHILE 1
0810 2 DO
0811 3 BEGIN
0812 3 DO
0813 4 BEGIN
0814 4 STATUS = SMG$READ_STRING(MAIL$L_SMG_KEYBOARD,DESC);
0815 4 IF (.STATUS EQL SSS_BADESCAPE) THEN
0816 4 SIGNAL(RMS$_BES,0,MAIL$_REENTER);
0817 4 END
0818 3 UNTIL (.STATUS NEQ SSS_BADESCAPE);
0819 4 IF (.STATUS EQL RMS$_TNS)
0820 4 OR (.STATUS EQL SSS_DATAOVERUN)
0821 3 THEN STATUS = SSS_NORMAL;
0822 3 IF NOT .STATUS
0823 4 THEN BEGIN
0824 4 IF .STATUS EQL SMG$_EOF
0825 4 THEN EXITLOOP;
0826 4 SIGNAL(MAIL$_READERR,1,SYSIN_DESC,.STATUS);
0827 4 EXITLOOP;
0828 3 END;
0829 3 IF .DESC[DSC$W_LENGTH] GTRU 255
0830 4 THEN BEGIN
0831 4 SIGNAL(MAIL$_READERR,1,SYSIN_DESC,RMS$_RTB,.DESC[DSC$W_LENGTH]);
0832 4 STATUS = RMS$_RTB;
```

```

: 699      0833  4      EXITLOOP;
: 700      0834  3      END;
: 701      0835  3      OUT_RAB[RAB$W_RSZ] = .DESC[DSC$W_LENGTH];
: 702      0836  3      OUT_RAB[RAB$L-RBF] = .DESC[DSC$A-POINTER];
: 703      0837  4      IF NOT (STATUS = $PUT(RAB = .OUT_RAB,ERR=UTIL$REPORT IO ERROR))
: 704      0838  3      OR .MAIL$GL_FLAGS[MAIF_V_CTR[CFL] THEN EXITLOOP (STATUS = 0);
: 705      0839  2      END;
: 706      0840  2
: 707      0841  2 STR$FREE1_DX(DESC);
: 708      0842  2
: 709      0843  3 RETURN (IF .STATUS
: 710      0844  4 OR (.STATUS EQL SMG$_EOF)
: 711      0845  3 THEN TRUE
: 712      0846  3 ELSE MAIL$_SENDABORT)
: 713      0847  1 END;
```

```

                                .EXTRN  SYS$PUT
                                .ENTRY  MAIL$ENTER, Save R2,R3,R4,R5,R6
                                MOVAB    SYSIN_DESC, R6
                                MOVL     #SMG$_EOF, R5
                                MOVAB    LIB$SIGNAL, R4
                                SUBL2    #8, SP
                                BBC      #2, MAIL$GL_FLAGS, 1$
                                PUSHL    #8314520
                                CALLS    #1, MAIL$GETMSG
                                PUSHL    R0
                                CALLS    #1, MAIL$PUT OUTPUT
                                MOVL     #33554432, DESC
                                CLRL     DESC+4
                                MOVL     #1, STATUS
                                MOVL     OUT_RAB, R2
                                MOVL     #8261840, 24(R2)
                                PUSHL    SP
                                PUSHAB   MAIL$L SMG KEYBOARD
                                CALLS    #2, SMG$READ_STRING
                                MOVL     R0, STATUS
                                CMPL     STATUS, #60
                                BNEQ     3$
                                PUSHL    #8306363
                                CLRL     -(SP)
                                PUSHL    #98752
                                CALLS    #3, LIB$SIGNAL
                                CMPL     STATUS, #60
                                BEQL     2$
                                CMPL     STATUS, #98744
                                BEQL     4$
                                CMPL     STATUS, #2104
                                BNEQ     5$
                                MOVL     #1, STATUS
                                BLBS     STATUS, 6$
                                CMPL     STATUS, R5
                                BEQL     9$
                                PUSHL    STATUS
                                PUSHL    R6
                                007C 00000
                                56      FA83  CF 9E 00002
                                55 00000000G 8F D0 00007
                                54 00000000G 00 9E 0000E
                                5E      08 C2 00015
                                16 00000000G 00      02 E1 00018
                                007EDE98 8F DD 00020
                                00000000G 00      01 FB 00026
                                50 DD 0002D
                                00000000G 00      01 FB 0002F
                                6E 02000000 8F D0 00036 1$:
                                04 AE D4 0003D
                                53      01 D0 00040
                                52      04 AC D0 00043
                                18 A2 007E10D0 8F DD 00047
                                5E DD 0004F 2$:
                                00000000G 00 9F 00051
                                00000000G 02 FB 00057
                                53      50 D0 0005E
                                3C      53 D1 00061
                                007EBEBB 11 12 00064
                                000181C0 8F DD 00066
                                7E D4 0006C
                                64      8F DD 0006E
                                3C      03 FB 00074
                                000181B8 53 D1 00077 3$:
                                8F      D3 13 0007A
                                00000838 53 D1 0007C
                                8F      09 13 00083
                                53      53 D1 00085
                                03      03 12 0008C
                                53      01 D0 0008E 4$:
                                16      53 E8 00091 5$:
                                55      53 D1 00094
                                61      61 13 00097
                                53      53 DD 00099
                                56      56 DD 0009B
                                .ENTRY  MAIL$ENTER, Save R2,R3,R4,R5,R6
                                MOVAB    SYSIN_DESC, R6
                                MOVL     #SMG$_EOF, R5
                                MOVAB    LIB$SIGNAL, R4
                                SUBL2    #8, SP
                                BBC      #2, MAIL$GL_FLAGS, 1$
                                PUSHL    #8314520
                                CALLS    #1, MAIL$GETMSG
                                PUSHL    R0
                                CALLS    #1, MAIL$PUT OUTPUT
                                MOVL     #33554432, DESC
                                CLRL     DESC+4
                                MOVL     #1, STATUS
                                MOVL     OUT_RAB, R2
                                MOVL     #8261840, 24(R2)
                                PUSHL    SP
                                PUSHAB   MAIL$L SMG KEYBOARD
                                CALLS    #2, SMG$READ_STRING
                                MOVL     R0, STATUS
                                CMPL     STATUS, #60
                                BNEQ     3$
                                PUSHL    #8306363
                                CLRL     -(SP)
                                PUSHL    #98752
                                CALLS    #3, LIB$SIGNAL
                                CMPL     STATUS, #60
                                BEQL     2$
                                CMPL     STATUS, #98744
                                BEQL     4$
                                CMPL     STATUS, #2104
                                BNEQ     5$
                                MOVL     #1, STATUS
                                BLBS     STATUS, 6$
                                CMPL     STATUS, R5
                                BEQL     9$
                                PUSHL    STATUS
                                PUSHL    R6
                                0776
                                0797
                                0798
                                0802
                                0805
                                0806
                                0808
                                0814
                                0815
                                0816
                                0818
                                0819
                                0820
                                0821
                                0822
                                0824
                                0826
```

		01	DD	0009D	PUSHL	#1	:
		8F	DD	0009F	PUSHL	#8261810	:
64	007E10B2	04	FB	000A5	CALLS	#4, LIB\$SIGNAL	:
		50	11	000A8	BRB	9\$	0823
00FF	8F	6E	B1	000AA	6\$: CMPW	DESC, #255	0829
		1F	1B	000AF	BLEQU	7\$:
7E		6E	3C	000B1	MOVZWL	DESC, -(SP)	0831
	000181A8	8F	DD	000B4	PUSHL	#98728	:
		56	DD	000BA	PUSHL	R6	:
		01	DD	000BC	PUSHL	#1	:
	007E10B2	8F	DD	000BE	PUSHL	#8261810	:
64		05	FB	000C4	CALLS	#5, LIB\$SIGNAL	:
53	000181A8	8F	D0	000C7	MOVL	#98728, STATUS	0832
		2A	11	000CE	BRB	9\$	0830
22	A2	6E	B0	000D0	7\$: MOVW	DESC, 34(R2)	0835
28	A2	AE	D0	000D4	MOVL	DESC+4, 40(R2)	0836
	00000000G	00	9F	000D9	PUSHAB	UTIL\$REPORT_IO_ERROR	0837
		52	DD	000DF	PUSHL	R2	:
00000000G	00	02	FB	000E1	CALLS	#2, SYSS\$PUT	:
	53	50	D0	000E8	MOVL	R0, STATUS	:
	0A	53	E9	000EB	BLBC	STATUS, 8\$:
	03	00	E8	000EE	BLBS	MAIL\$GL_FLAGS+1, 8\$	0838
		FF	31	000F5	BRW	2\$:
		53	D4	000F8	8\$: CLRL	STATUS	:
		5E	DD	000FA	9\$: PUSHL	SP	0841
00000000G	00	01	FB	000FC	CALLS	#1, STR\$FREE1_DX	:
	05	53	E8	00103	BLBS	STATUS, 10\$	0843
	55	53	D1	00106	CMPL	STATUS, R5	0844
		04	12	00109	BNEQ	11\$:
	50	01	D0	0010B	10\$: MOVL	#1, R0	0843
		04		0010E	RET		:
	50	8F	D0	0010F	11\$: MOVL	#8290394, R0	:
		04		00116	RET		0847

; Routine Size: 279 bytes, Routine Base: \$CODE\$ + 0597

```
0848 1 ROUTINE EDT_EXTRACT_IO(FILE_CODE,FILE_STREAM,RECORD_DESC,RHB_DESC) =
0849 1 ++
0850 1 FUNCTIONAL DESCRIPTION:
0851 1
0852 1 This routine is called by EDT when an EDT/EXTRACT is done.
0853 1 This routine only handles input file i/o, and passes the rest
0854 1 onto EDT's input routine
0855 1
0856 1 --
0857 2 BEGIN
0858 2
0859 2 LOCAL
0860 2 STATUS,
0861 2 MORE_FLAG,
0862 2 DESC: VECTOR[2, LONG];
0863 2
0864 2 BUILTIN
0865 2 AP,
0866 2 CALLG;
0867 2
0868 2 MAP
0869 2 FILE_CODE : REF VECTOR[BYTE],
0870 2 FILE_STREAM : REF VECTOR[BYTE],
0871 2 RECORD_DESC : REF $BBLOCK,
0872 2 RHB_DESC : REF $BBLOCK;
0873 2
0874 2 If not input file i/o then pass it on to EDT
0875 2
0876 2 IF .FILE_STREAM[0] NEQ .EDT_K_INPUT_FILE
0877 2 THEN RETURN CALLG(.AP,.EDT_FILE_IO)
0878 3 ELSE BEGIN
0879 3 IF .FILE_CODE[0] EQL .EDT_K_OPEN_INPUT
0880 3 OR .FILE_CODE[0] EQL .EDT_K_CLOSE
0881 3 THEN RETURN TRUE;
0882 3 IF .FILE_CODE[0] EQL .EDT_K_GET
0883 4 THEN BEGIN
0884 4 IF .MAIL$GL_FLAGS[MAIF_V_ISAM]
0885 5 THEN BEGIN
0886 5 IF NOT MAIL$GET_I MSG(DESC,MORE_FLAG)
0887 5 THEN RETURN RMSS EOF;
0888 5 STR$COPY DX(.RECORD_DESC,DESC);
0889 5 RETURN TRUE;
0890 5 END
0891 5 ELSE BEGIN
0892 5 IF NOT .MAIL$L MSG STS
0893 5 THEN RETURN RMSS EOF;
0894 5 DESC[0] = .MAIL$W MSG_RSIZ;
0895 5 DESC[1] = .MAIL$L MSG_RADR;
0896 5 STR$COPY DX(.RECORD_DESC,DESC);
0897 5 MAIL$GET MSG();
0898 5 RETURN TRUE;
0899 5 END
0900 4 END
0901 3 ELSE SIGNAL(0);
0902 3 RETURN TRUE
0903 2 END;
0904 1 END;
```

```
000C 00000 EDT_EXTRACT IO:
      53 00000000G 00 9E 00002 .WORD Save R2,R3 0848
      52 00000000' 00 9E 00009 MOVAB STR$COPY_DX, R3
      5E 00 0C C2 00010 MOVAB EDT_K_INPUT_FILE, R2
      08 00 08 ED 00013 SUBL2 #12, SP
      51 14 A2 D0 00019 CMPZV #0, #8, @FILE_STREAM, EDT_K_INPUT_FILE 0876
      61 6C FA 0001B BEQL 1$
      08 00 ED 00023 1$: MOVL EDT_FILEIO, R1 0877
      08 6D 13 0002A RET (APT, (R1)) 0878
      08 00 ED 0002C CMPZV #0, #8, @FILE_CODE, EDT_K_OPEN_INPUT 0879
      08 64 13 00033 BEQL 6$
      08 00 ED 00035 CMPZV #0, #8, @FILE_CODE, EDT_K_CLOSE 0880
      52 12 0003C BEQL 6$
      1A 00000000G 00 E9 0003E CMPZV #0, #8, @FILE_CODE, EDT_K_GET 0882
      5E DD 00045 BNEQ 5$
      08 AE 9F 00047 BLBC MAIL$GL_FLAGS, 2$ 0884
      00000000G 00 02 FB 0004A PUSHL SP 0886
      12 50 E9 00051 PUSHAB DESC
      04 AE 9F 00054 CALLS #2, MAIL$GET_I_MSG
      0C AC DD 00057 BLBC R0, 3$
      63 02 FB 0005A PUSHAB DESC 0888
      3A 11 0005D PUSHL RECORD_DESC
      08 00 E8 0005F 2$: CALLS #2, STR$COPY_DX
      50 0001027A 8F D0 00066 3$: BRB 6$ 0891
      04 AE 00000000G 00 3C 0006E 4$: BLBS MAIL$L_MSG_STS, 4$ 0892
      08 AE 00000000G 00 D0 00076 MOVL #98938, R0 0893
      04 AE 9F 0007E RET
      0C AC DD 00081 MOVZWL MAIL$W_MSG_RSIZ, DESC 0894
      63 02 FB 00084 MOVL MAIL$L_MSG_RADR, DESC+4 0895
      00000000G 00 09 11 0008E PUSHAB DESC 0896
      00000000G 00 00 FB 00087 PUSHL RECORD_DESC
      09 7E D4 00090 5$: CALLS #2, STR$COPY_DX
      00000000G 00 01 FB 00092 CALLS #0, MAIL$GET_MSG 0897
      50 01 D0 00099 6$: BRB 6$ 0898
      04 0009C CLRL -(SP) 0901
      RET MOVL #1, LIB$SIGNAL 0902
      RET MOVL #1, R0 0904
```

; Routine Size: 157 bytes, Routine Base: \$CODE\$ + 06AE

```
773 0905 1 ROUTINE COPY_MSG(FAB,RAB,NAM) =
774 0906 1 |++
775 0907 1 | Copy the current message to a temporary file
776 0908 1 |
777 0909 1 |--
778 0910 1 |
779 0911 2 BEGIN
780 0912 2 MAP
781 0913 2     FAB : REF $BBLOCK,
782 0914 2     RAB : REF $BBLOCK,
783 0915 2     NAM : REF $BBLOCK;
784 0916 2
785 0917 2 LOCAL
786 0918 2     SND_XABPRO : $XABPRO_DECL,
787 0919 2     STATUS,
788 0920 2     DESC : VECTOR[2, LONG];
789 0921 2
790 0922 2 DESC[0] = NAM$C MAXRSS;
791 0923 2 DESC[1] = .NAM[NAM$RSL];
792 P 0924 2 $FAO((IF .MAIL$L_MYPID<16,16,0> NEQ 0
793 P 0925 2     THEN $DESCRIPTOR('SYSS$SCRATCH:MAIL_!XL_EDIT.TMP')
794 P 0926 2     ELSE $DESCRIPTOR('SYSS$SCRATCH:MAIL_!XW_EDIT.TMP')),
795 0927 2     DESC, DESC, .MAIL$L_MYPID);
796 P 0928 2 $FAB_INIT(FAB=.FAB,
797 P 0929 2     FNS=.DESC[0],
798 P 0930 2     FNA=.DESC[1],
799 P 0931 2     FAC=(PUT, TRN),
800 P 0932 2     CTX=MAIL$_OPENOUT,
801 P 0933 2     NAM=.NAM,
802 P 0934 2     RAT=CR,
803 0935 2     RFM=VAR);
804 0936 2
805 P 0937 2 $XABPRO_INIT(XAB=SND_XABPRO,
806 0938 2     UIC=(0,0));
807 0939 2
808 0940 2 SND_XABPRO[XAB$W_PRO] = MAIL$_TMP_PRO;
809 0941 2
810 P 0942 2 IF_ERR($CREATE(FAB=.FAB, ERR=UTIL$REPORT_IO_ERROR);,
811 0943 2     RETURN .STATUS);
812 0944 2
813 0945 2 FAB[FAB$L_XAB] = 0;
814 0946 2 FAB[FAB$B_FNS] = .NAM[NAM$B_RSL];
815 0947 2 DESC[0] = .NAM[NAM$B_RSL];
816 P 0948 2 $RAB_INIT(RAB=.RAB,
817 P 0949 2     CTX=MAIL$_OPENOUT,
818 0950 2     FAB=.FAB);
819 0951 2
820 P 0952 2 IF_ERR($CONNECT(RAB=.RAB, ERR=UTIL$REPORT_IO_ERROR);,
821 P 0953 2     .FAB[FAB$V_DLT] = 1;
822 P 0954 2     $CLOSE(FAB=.FAB);
823 0955 2     RETURN .STATUS);
824 0956 2
825 0957 2 RAB[RAB$L_CTX] = MAIL$_WRITEERR;
826 0958 2 STATUS = MAIL$EXTRACT_MESSAGE(1, .RAB);
827 0959 2 FAB[FAB$L_CTX] = MAIL$_CLOSEOUT;
828 P 0960 2 IF_ERR($CLOSE(FAB=.FAB, ERR=UTIL$REPORT_IO_ERROR);,
829 0961 2     RETURN .STATUS);
```

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

N 14
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1

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```
: 830      0962 2
: 831      0963 2 STR$COPY DX(INPUT_DESC,DESC);
: 832      0964 2 RETURN TRUE
: 833      0965 1 END;
```

```
49 41 4D 3A 48 43 54 41 52 43 53 24 53 59 53 0074B P.ABZ: .ASCII \SYS$SCRATCH:MAIL_!XL_EDIT.TMP\
   50 4D 54 2E 54 49 44 45 5F 4C 58 21 5F 4C 0075A
                                0000001D 00768 P.ABY: .LONG 29
                                00000000' 0076C .ADDRESS P.ABZ
49 41 4D 3A 48 43 54 41 52 43 53 24 53 59 53 00770 P.ACB: .ASCII \SYS$SCRATCH:MAIL_!XW_EDIT.TMP\
   50 4D 54 2E 54 49 44 45 5F 57 58 21 5F 4C 0077F
                                0078D
                                0000001D 00790 P.ACA: .BLKB 3
                                00000000' 00794 .LONG 29
                                                .ADDRESS P.ACB
                                                .EXTRN SYS$CREATE, SYS$CONNECT
                                                .EXTRN SYS$CLOSE
```

03FC 00000 COPY_MSG:

```
59 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9 0905
58 00000000G 00 9E 00009 MOVAB SYS$CLOSE, R9
5E A4 AE 9E 00010 MOVAB UTIL$REPORT_IO_ERROR, R8
7E FF 8F 9A 00014 MOVAB -92(SP), SP
56 0C AC D0 00018 MOVZBL #255, DESC 0922
04 AE 04 A6 D0 0001C MOVL NAM, R6 0923
00000000G 00 DD 00021 MOVL 4(R6), DESC+4
04 AE 9F 00027 PUSHL MAIL$MYPID 0927
08 AE 9F 0002A PUSHAB DESC
00000000G 00 B5 0002D PUSHAB DESC
06 13 00033 TSTW MAIL$MYPID+2
50 98 AF 9E 00035 BEQL 1$
04 11 00039 MOVAB P.ABY, R0
50 BA AF 9E 0003B BRB 2$
00000000G 00 50 DD 0003F 1$: MOVAB P.ACA, R0
04 04 FB 00041 2$: PUSHL R0
57 04 AC D0 00048 CALLS #4, SYS$FAO
6E 00 2C 0004C MOVL FAB, R7 0935
67 00053 MOVCS #0, (SP), #0, #80, (R7)
67 5003 8F B0 00054 MOVW #20483, (R7)
16 A7 11 90 00059 MOVW #17, 22(R7)
18 A7 007E10A2 8F D0 0005D MOVL #8261794, 24(R7)
1E A7 0202 8F B0 00065 MOVW #514, 30(R7)
28 A7 56 D0 0006B MOVL R6, 40(R7)
2C A7 04 AE D0 0006F MOVL DESC+4, 44(R7)
34 A7 6E 90 00074 MOVW DESC, 52(R7)
0058 8F 00 00 2C 00078 MOVCS #0, (SP), #0, #88, $RMS_PTR 0938
08 AE 08 AE 0007F
08 AE 5813 8F B0 00081 MOVW #22547, $RMS_PTR
10 AE 0000G 8F B0 00087 MOVW #MAIL$C_TMP_PRO, SND_XABPRO+8
0180 8F BB 0008D PUSHR #^M<R7,R8>
00000000G 00 02 FB 00091 CALLS #2, SYS$CREATE
6E 50 E9 00098 BLBC STATUS, 4$
34 A7 24 A7 D4 0009B CLRL 36(R7)
03 A6 90 0009E MOVW 3(R6), 52(R7) 0945
                                0946
```

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

B 15

16-Sep-1984 00:51:12

14-Sep-1984 12:42:17

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1

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0044	8F	00	6E	03	A6	9A	000A3	MOVZBL	3(R6), DESC	: 0947
			56	08	AC	D0	000A7	MOVL	RAB, R6	: 0950
			6E		00	2C	000AB	MOVCS	#0, (SP), #0, #68, (R6)	:
					66		000B2			:
			66	4401	8F	B0	000B3	MOVW	#17409, (R6)	:
		18	A6	007E10A2	8F	D0	000B8	MOVL	#8261794, 24(R6)	:
		3C	A6		57	D0	000C0	MOVL	R7, 60(R6)	:
				0140	8F	BB	000C4	PUSHR	#^M<R6,R8>	: 0955
		00000000G	00		02	FB	000C8	CALLS	#2, SYS\$CONNECT	:
			52		50	D0	000CF	MOVL	R0, STATUS	:
			12		52	E8	000D2	BLBS	STATUS, 3\$:
50		05	01		07	EF	000D5	EXTZV	#7, #1, 5(R7), R0	:
			60		01	D0	000DB	MOVL	#1, (R0)	:
					57	DD	000DE	PUSHL	R7	:
			69		01	FB	000E0	CALLS	#1, SYS\$CLOSE	:
			50		52	D0	000E3	MOVL	STATUS, R0	:
					04		000E6	RET		:
		18	A6	007E10D0	8F	D0	000E7	3\$: MOVL	#8261840, 24(R6)	: 0957
					56	DD	000EF	PUSHL	R6	: 0958
					01	DD	000F1	PUSHL	#1	:
		00000000G	00		02	FB	000F3	CALLS	#2, MAIL\$EXTRACT_MESSAGE	:
		18	A7	007E105A	8F	D0	000FA	MOVL	#8261722, 24(R7)	: 0959
				0180	8F	BB	00102	PUSHR	#^M<R7,R8>	: 0961
			69		02	FB	00106	CALLS	#2, SYS\$CLOSE	:
			12		50	E9	00109	BLBC	STATUS, 5\$:
					5E	DD	0010C	PUSHL	SP	: 0963
				00000000'	00	9F	0010E	PUSHAB	INPUT_DESC	:
		00000000G	00		02	FB	00114	CALLS	#2, STR\$COPY_DX	:
			50		01	D0	0011B	MOVL	#1, R0	: 0964
					04		0011E	5\$: RET		: 0965

; Routine Size: 287 bytes, Routine Base: \$CODE\$ + 0798

MA
VO

```
: 835      0966 1 ROUTINE DELETE_TMP(FAB) =  
: 836      0967 1 |++  
: 837      0968 1 | Delete the file that FAB describes  
: 838      0969 1 |--  
: 839      0970 1 |--  
: 840      0971 2 BEGIN  
: 841      0972 2 MAP  
: 842      0973 2     FAB : REF $BBLOCK;  
: 843      0974 2  
: 844      0975 2 FAB[FAB$V_DLT] = TRUE;  
: 845      0976 2 FAB[FAB$L_CTX] = MAIL$ OPENIN;  
: 846      P 0977 2 IF_ERR($OPEN(FAB=.FAB,ERR=UTIL$REPORT_IO_ERROR);,  
: 847      0978 2     RETURN .STATUS);  
: 848      0979 2 FAB[FAB$L_CTX] = MAIL$ FILNOTDEL;  
: 849      P 0980 2 IF_ERR($CLOSE(FAB=.FAB,ERR=UTIL$REPORT_IO_ERROR);,  
: 850      0981 2     RETURN .STATUS);  
: 851      0982 2  
: 852      0983 2 RETURN TRUE  
: 853      0984 1 END;
```

.EXTRN SYSS\$OPEN

```
000C 00000 DELETE_TMP:  
      53 00000000G 00 9E 00002 .WORD Save R2,R3  
      52 00000000G AC D0 00009 MOVAB UTIL$REPORT_IO_ERROR, R3  
      05 A2 007E109A 8F 88 0000D MOVL FAB, R2  
      18 A2 007E109A 8F D0 00012 BISB2 #128, 5(R2)  
      00000000G 00 0C BB 0001A MOVL #8261786, 24(R2)  
      17 00000000G 02 FB 0001C PUSHF #^M<R2,R3>  
      18 A2 007E11F0 50 E9 00023 CALLS #2, SYSS$OPEN  
      00000000G 00 0C BB 0002E BLBC STATUS, 1$  
      03 00000000G 50 E9 00037 MOVL #8262128, 24(R2)  
      50 00000000G 01 D0 0003A PUSHF #^M<R2,R3>  
      04 0003D 1$ 01 D0 0003A CALLS #2, SYSS$CLOSE  
      RET          BLBC STATUS, 1$  
      MOVL #1, R0  
      RET
```

```
: 0966  
: 0975  
: 0976  
: 0978  
: 0979  
: 0981  
: 0983  
: 0984
```

; Routine Size: 62 bytes, Routine Base: \$CODE\$ + 08B7

```

: 855 0985 1 ROUTINE CALL_EDT_EDIT (FLAGS,FILEIO_RTN) =
: 856 0986 1 |++
: 857 0987 1 | FUNCTIONAL DESCRIPTION:
: 858 0988 1 |
: 859 0989 1 |         Call EDT to edit the file.  Done this way so that if EDT signals
: 860 0990 1 |         an error, the handler does a default unwind to the caller of this
: 861 0991 1 |         routine
: 862 0992 1 | --
: 863 0993 2 BEGIN
: 864 0994 2
: 865 0995 2 LOCAL
: 866 0996 2     FAB : $FAB_DECL,
: 867 0997 2     NAM : $NAM_DECL,
: 868 0998 2     RAB : $RAB_DECL,
: 869 0999 2     STATUS,
: 870 1000 2     TMPFAB : $FAB_DECL,
: 871 1001 2     TMPNAM : $NAM_DECL,
: 872 1002 2     TMPESS : $BLOCK[NAM$C_MAXRSS],
: 873 1003 2     TMPRSS : $BLOCK[NAM$C_MAXRSS],
: 874 1004 2     NAMBUF : $BLOCK[NAM$C_MAXRSS],
: 875 1005 2     XLATE_BPV : VECTOR[2,LONG],
: 876 1006 2     FILEIO_BPV : VECTOR[2,LONG];
: 877 1007 2
: 878 1008 2 ENABLE EDT_HANDLER;
: 879 1009 2
: 880 1010 2 |
: 881 1011 2 | Initialize temporary file FAB
: 882 1012 2 |
: 883 P 1013 2 $FAB_INIT(fab=tmpfab,
: 884 P 1014 2     fns=.input_desc[dsc$w_length],
: 885 P 1015 2     fna=.input_desc[dsc$a_pointer],
: 886 1016 2     nam=tmpnam);
: 887 1017 2
: 888 P 1018 2 $NAM_INIT(NAM=TMPNAM,
: 889 P 1019 2     ESS=NAM$C_MAXRSS,
: 890 P 1020 2     ESA=TMPESS,
: 891 P 1021 2     RSS=NAM$C_MAXRSS,
: 892 1022 2     RSA=TMPRSS);
: 893 1023 2
: 894 1024 2 IF NOT (status=$PARSE(fab=tmpfab)) THEN
: 895 1025 2     SIGNAL(MAIL$_OPENIN,1,input_desc,.status);
: 896 1026 2
: 897 1027 2 IF .MAIL$GL_FLAGS[MAIF_V_EDTEDT]
: 898 1028 3 THEN BEGIN
: 899 1029 3     XLATE_BPV[0] = EDT_XLATE;
: 900 1030 3     XLATE_BPV[1] = 0;
: 901 1031 3     IF .FILEIO_RTN EQL 0
: 902 1032 3     THEN (.EDT_EDIT)(INPUT_DESC,OUTPUT_DESC,
: 903 1033 3         COMMAND_DESC,JOURNAL_DESC,FLAGS,0,0,XLATE_BPV)
: 904 1034 4     ELSE BEGIN
: 905 1035 4         FILEIO_BPV[0] = EDT_EXTRACT_IO;
: 906 1036 4         FILEIO_BPV[1] = 0;
: 907 1037 4         (.EDT_EDIT)(INPUT_DESC,OUTPUT_DESC,COMMAND_DESC,JOURNAL_DESC,
: 908 1038 4             FLAGS,FILEIO_BPV,0,XLATE_BPV);
: 909 1039 3     END;
: 910 1040 3 RETURN TRUE
: 911 1041 2 END;
```

```
912 1042 2 IF .MAIL$GL_FLAGS[MAIF_V_EDTXYZ]
913 1043 2 THEN BEGIN
914 1044 2 RETURN TRUE
915 1045 2 END;
916 1046 2
917 1047 2 Not an editor we know about. If reading a mail message, then copy
918 1048 2 it to a temporary file.
919 1049 2
920 1050 2 IF .FILEIO_RTN NEQ 0
921 1051 2 THEN BEGIN
922 P 1052 2 $NAM INIT(NAM=NAM,
923 P 1053 2 RSS=NAM$C MAXRSS,
924 P 1054 2 RSA=NAM$BUF);
925 P 1055 2 IF_ERR(COPY_MSG(FAB,RAB,NAM);,
926 1056 2 RETURN TRUE);
927 1057 2 END;
928 1058 2 (.EDT_EDIT)(INPUT_DESC,OUTPUT_DESC);
929 1059 2 IF .FILEIO_RTN NEQ 0
930 1060 2 THEN DELETE_TMP(FAB);
931 1061 2 RETURN TRUE
932 1062 1 END;
```

				01FC 00000 CALL_EDT_EDIT:							
			56	FB33	CF	9E	00002	WORD	Save R2,R3,R4,R5,R6,R7,R8		0985
			57	00000000	00	9E	00007	MOVAB	EDT_XLATE, R8		
			5E	FB4C	CE	9E	0000E	MOVAB	INPUT_DESC, R7		
0050	8F	00	6D	010C	CF	DE	00013	MOVAB	-1204(SP), SP		0993
			6E		00	2C	00018	MOVAL	7\$, (FP)		1016
				FEBC	CD		0001F	MOVCS	#0, (SP), #0, #80, \$RMS_PTR		
				5003	8F	B0	00022	MOVW	#20483, \$RMS_PTR		
		FEBC	CD		02	90	00029	MOVW	#2, \$RMS_PTR+22		
		FED2	CD		02	90	0002E	MOVW	#2, \$RMS_PTR+31		
		FEDB	CD	FE5C	CD	9E	00033	MOVAB	TMPNAM, \$RMS_PTR+40		
		FEE4	CD	04	A7	D0	0003A	MOVL	INPUT_DESC+4, \$RMS_PTR+44		
		FEE8	CD		67	90	00040	MOVW	INPUT_DESC, \$RMS_PTR+52		
0060	8F	00	6E		00	2C	00045	MOVCS	#0, (SP), #0, #96, \$RMS_PTR		1022
				FE5C	CD		0004C				
				6002	8F	B0	0004F	MOVW	#24578, \$RMS_PTR		
		FE5E	CD		01	8E	00056	MNEGB	#1, \$RMS_PTR+2		
		FE60	CD	0110	CE	9E	0005B	MOVAB	TMPRSS, \$RMS_PTR+4		
		FE66	CD		01	8E	00062	MNEGB	#1, \$RMS_PTR+10		
		FE68	CD	0210	CE	9E	00067	MOVAB	TMPESS, \$RMS_PTR+12		
				FEBC	CD	9F	0006E	PUSHAB	TMPFAB		1024
		00000000G	00		01	FB	00072	CALLS	#1, SYSSPARSE		
			13		50	E8	00079	BLBS	STATUS, 1\$		
					50	DD	0007C	PUSHL	STATUS		1025
					57	DD	0007E	PUSHL	R7		
					01	DD	00080	PUSHL	#1		
				007E109A	8F	DD	00082	PUSHL	#8261786		
		00000000G	00		04	FB	00088	CALLS	#4, LIB\$SIGNAL		
			3A	00000000G	00	E9	0008F	BLBC	MAIL\$GL_FLAGS+2, 4\$		1027
		08	AE		68	9E	00096	MOVAB	EDT_XLATE, XLATE_BP		1029

			0C	AE	D4	0009A	CLRL	XLATE BPV+4	:	1030
		52	4C	A7	D0	0009D	MOVL	EDT EDIT, R2	:	1032
			08	AC	D5	000A1	TSTL	FILEIO_RTN	:	1031
				07	12	000A4	BNEQ	2\$:	
			08	AE	9F	000A6	PUSHAB	XLATE_BPV	:	1032
				7E	7C	000A9	CLRL	-(SP)	:	
				10	11	000AB	BRB	3\$:	
		6E	0280	C8	9E	000AD	MOVAB	EDT_EXTRACT_IO, FILEIO_BPV	:	1035
			04	AE	D4	000B2	CLRL	FILEIO_BPV+4	:	1036
			08	AE	9F	000B5	PUSHAB	XLATE_BPV	:	1037
				7E	D4	000B8	CLRL	-(SP)	:	
			08	AE	9F	000BA	PUSHAB	FILEIO_BPV	:	
			04	AC	9F	000BD	PUSHAB	FLAGS	:	
			10	A7	9F	000C0	PUSHAB	JOURNAL_DESC	:	
			08	A7	9F	000C3	PUSHAB	COMMAND_DESC	:	
			18	A7	9F	000C6	PUSHAB	OUTPUT_DESC	:	
				57	DD	000C9	PUSHL	R7	:	
		62		08	FB	000CB	CALLS	#8, (R2)	:	
				4F	11	000CE	BRB	6\$:	1040
				56	D4	000D0	CLRL	R6	:	1050
			08	AC	D5	000D2	TSTL	FILEIO_RTN	:	
				31	13	000D5	BEQL	5\$:	
				56	D6	000D7	INCL	R6	:	
0060	8F	00	6E	00	2C	000D9	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	:	1054
				FF50	CD	000E0			:	
	FF50	CD	6002	8F	B0	000E3	MOVW	#24578, \$RMS_PTR	:	
	FF52	CD		01	8E	000EA	MNEGB	#1, \$RMS_PTR+2	:	
	FF54	CD		10	AE	9E	MOVAB	NAMBUF, \$RMS_PTR+4	:	
				FF50	CD	9F	PUSHAB	NAM	:	1056
				FF0C	CD	9F	PUSHAB	RAB	:	
				B0	AD	9F	PUSHAB	FAB	:	
	036A	C8		03	FB	00100	CALLS	#3, COPY_MSG	:	
		17		50	E9	00105	BLBC	STATUS, 8\$:	
		50		4C	A7	D0	MOVL	EDT EDIT, R0	:	1058
				18	A7	9F	PUSHAB	OUTPUT_DESC	:	
					57	DD	PUSHL	R7	:	
		60		02	FB	00111	CALLS	#2, (R0)	:	
		08		56	E9	00114	BLBC	R6, 6\$:	1059
				B0	AD	9F	PUSHAB	FAB	:	1060
	0489	C8		01	FB	0011A	CALLS	#1, DELETE_TMP	:	
		50		01	D0	0011F	MOVL	#1, R0	:	1061
					04	00122	RET		:	1062
					0000	00123	.WORD	Save nothing	:	0993
				7E	D4	00125	CLRL	-(SP)	:	
				5E	DD	00127	PUSHL	SP	:	
	F8B5	7E	04	AC	7D	00129	MOVQ	4(AP), -(SP)	:	
		CF		03	FB	0012D	CALLS	#3, EDT_HANDLER	:	
					04	00132	RET		:	

; Routine Size: 307 bytes, Routine Base: \$CODE\$ + 08F5

```
1063 1 GLOBAL ROUTINE MAIL$EDIT_READ_MSG =
1064 1 ++
1065 1 FUNCTIONAL DESCRIPTION:
1066 1
1067 1 Invoke the editor to read the current message
1068 1
1069 1 --
1070 2 BEGIN
1071 2 LOCAL
1072 2 EDT_FLAGS;
1073 2
1074 2 STR$FREE1_DX(INPUT_DESC);
1075 2 STR$FREE1_DX(OUTPUT_DESC);
1076 2 STR$FREE1_DX(JOURNAL_DESC);
1077 2 STR$FREE1_DX(COMMAND_DESC);
1078 2
P 1079 2 IF_ERR(MAIL$LOAD_EDT());
1080 2 RETURN .STATUS);
1081 2
1082 2 IF MAIL$NEW_MSG()
1083 2 THEN MAIL$DECR_NEWMAIL(MAIL$Q_USERNAME);
1084 2
1085 2 EDT_FLAGS = .EDT_M_NOOUTPUT OR .EDT_M_NOCREATE OR .EDT_M_NOJOURNAL;
1086 2 CALL_EDT_EDIT(.EDT_FLAGS, EDT_EXTRACT_IO);
1087 2
1088 2 RETURN TRUE
1089 1 END;
```

54	F772	CF	9E	00002	.ENTRY	MAIL\$EDIT_READ_MSG, Save R2,R3,R4	1063
53	00000000G	00	9E	00007	MOVAB	MAIL\$LOAD_EDT, R4	
52	00000000'	00	9E	0000E	MOVAB	STR\$FREE1_DX, R3	
		52	DD	00015	MOVAB	INPUT_DESC, R2	
63		01	FB	00017	PUSHL	R2	1074
	18	A2	9F	0001A	CALLS	#1, STR\$FREE1_DX	
63		01	FB	0001D	PUSHAB	OUTPUT_DESC	1075
	10	A2	9F	00020	CALLS	#1, STR\$FREE1_DX	
63		01	FB	00023	PUSHAB	JOURNAL_DESC	1076
	08	A2	9F	00026	CALLS	#1, STR\$FREE1_DX	
63		01	FB	00029	PUSHAB	COMMAND_DESC	1077
64		00	FB	0002C	CALLS	#1, STR\$FREE1_DX	
2F		50	E9	0002F	CALLS	#0, MAIL\$LOAD_EDT	1080
00000000G		00	FB	00032	BLBC	STATUS, 2\$	
0D		50	E9	00039	CALLS	#0, MAIL\$NEW_MSG	1082
	00000000G	00	9F	0003C	BLBC	R0, 1\$	
50	00000000G	01	FB	00042	PUSHAB	MAIL\$Q_USERNAME	1083
	2C	A2	C9	00049	CALLS	#1, MAIL\$DECR_NEWMAIL	
		50	C8	0004F	BISL3	EDT_M_NOCREATE, EDT_M_NOOUTPUT, R0	1085
			C4	9F	BISL2	EDT_M_NOJOURNAL, EDT_FLAGS	
			50	DD	PUSHAB	EDT_EXTRACT_IO	1086
0755		02	FB	00059	PUSHL	EDT_FLAGS	
		01	D0	0005E	CALLS	#2, CALL_EDT_EDIT	1088
			04	00061	MOVL	#1, R0	
					RET		1089

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

H 15
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1 Page 40
(17)

; Routine Size: 98 bytes, Routine Base: \$CODE\$ + 0A28

```

: 962      1090 1 GLOBAL ROUTINE MAIL$CMD_EDIT =
: 963      1091 1 ++
: 964      1092 1 | FUNCTIONAL DESCRIPTION:
: 965      1093 1 |
: 966      1094 1 |         Process the EDIT command by invoking callable EDT to edit the file
: 967      1095 1 |
: 968      1096 1 | --
: 969      1097 2 BEGIN
: 970      1098 2 LOCAL
: 971      1099 2     STATUS,
: 972      1100 2     EDT_FLAGS;
: 973      1101 2
: 974      1102 2 STR$FREE1_DX(INPUT_DESC);
: 975      1103 2 STR$FREE1_DX(OUTPUT_DESC);
: 976      1104 2 STR$FREE1_DX(JOURNAL_DESC);
: 977      1105 2 STR$FREE1_DX(COMMAND_DESC);
: 978      1106 2
: 979      1107 2 CLISGET_VALUE(SD_INPUT,INPUT_DESC);
: 980      1108 2
: 981      P 1109 2 IF_ERR(MAIL$LOAD_EDT());
: 982      1110 2     RETURN .STATUS);
: 983      1111 2
: 984      1112 2 EDT_FLAGS = 0;
: 985      1113 2 STATUS = CLISPRESENT(SD_COMMAND);
: 986      1114 2 IF .STATUS
: 987      1115 2     THEN STATUS = CLISGET_VALUE(SD_COMMAND,COMMAND_DESC)
: 988      1116 2     ELSE IF .STATUS EQL CLIS$NEGATED
: 989      1117 2         OR .STATUS EQL CLIS$LOCNEG
: 990      1118 2         THEN EDT_FLAGS = .EDT_FLAGS OR .EDT_M_NOCOMMAND;
: 991      1119 2
: 992      1120 2 STATUS = CLISPRESENT(SD_JOURNAL);
: 993      1121 2 IF .STATUS
: 994      1122 2     THEN STATUS = CLISGET_VALUE(SD_JOURNAL,JOURNAL_DESC)
: 995      1123 2     ELSE IF .STATUS EQL CLIS$NEGATED
: 996      1124 2         OR .STATUS EQL CLIS$LOCNEG
: 997      1125 2         THEN EDT_FLAGS = .EDT_FLAGS OR .EDT_M_NOJOURNAL;
: 998      1126 2
: 999      1127 2 STATUS = CLISPRESENT(SD_OUTPUT);
: 1000     1128 2 IF .STATUS
: 1001     1129 2     THEN STATUS = CLISGET_VALUE(SD_OUTPUT,OUTPUT_DESC)
: 1002     1130 2     ELSE IF .STATUS EQL CLIS$NEGATED
: 1003     1131 2         OR .STATUS EQL CLIS$LOCNEG
: 1004     1132 2         THEN EDT_FLAGS = .EDT_FLAGS OR .EDT_M_NOOUTPUT;
: 1005     1133 2
: 1006     1134 2 STATUS = CLISPRESENT(SD_CREATE);
: 1007     1135 2 IF .STATUS EQL CLIS$NEGATED
: 1008     1136 2     OR .STATUS EQL CLIS$LOCNEG
: 1009     1137 2     THEN EDT_FLAGS = .EDT_FLAGS OR .EDT_M_NOCREATE;
: 1010     1138 2
: 1011     1139 2 IF CLISPRESENT(SD_READ)
: 1012     1140 2     THEN EDT_FLAGS = .EDT_FLAGS OR .EDT_M_NOOUTPUT OR .EDT_M_NOCREATE
: 1013     1141 2         OR .EDT_M_NOJOURNAL;
: 1014     1142 2
: 1015     1143 2 CALL_EDT_EDIT(.EDT_FLAGS,0);
: 1016     1144 2
: 1017     1145 2 RETURN TRUE
: 1018     1146 1 END;
```

			03FC 00000	.ENTRY MAIL\$CMD EDIT, Save R2,R3,R4,R5,R6,R7,R8,R9 ;	1090
59	000000000G	8F	D0 00002	MOVL #CLIS_LOCNEG, R9	
58	000000000G	8F	D0 00009	MOVL #CLIS_NEGATED, R8	
57	000000000G	00	9E 00010	MOVAB CLISGET VALUE, R7	
56	000000000G	00	9E 00017	MOVAB STR\$FREE1_DX, R6	
55	000000000G	00	9E 0001E	MOVAB CLISPRESENT, R5	
54	F659	CF	9E 00025	MOVAB SD_COMMAND, R4	
53	000000000'	00	9E 0002A	MOVAB INPUT_DESC, R3	
		53	DD 00031	PUSHL R3	1102
66		01	FB 00033	CALLS #1, STR\$FREE1_DX	
	18	A3	9F 00036	PUSHAB OUTPUT_DESC	1103
66		01	FB 00039	CALLS #1, STR\$FREE1_DX	
	10	A3	9F 0003C	PUSHAB JOURNAL_DESC	1104
66		01	FB 0003F	CALLS #1, STR\$FREE1_DX	
	08	A3	9F 00042	PUSHAB COMMAND_DESC	1105
66		01	FB 00045	CALLS #1, STR\$FREE1_DX	
		53	DD 00048	PUSHL R3	1107
	20	A4	9F 0004A	PUSHAB SD_INPUT	
F6C1 67		02	FB 0004D	CALLS #2, CLISGET VALUE	
CF		00	FB 00050	CALLS #0, MAIL\$LOAD_EDT	1110
01		50	E8 00055	BLBS STATUS, 1\$	
			04 00058	RET	
		52	D4 00059 1\$:	CLRL EDT_FLAGS	1112
		54	DD 0005B	PUSHL R4	1113
65		01	FB 0005D	CALLS #1, CLISPRESENT	
0A		50	E9 00060	BLBC STATUS, 2\$	1114
	08	A3	9F 00063	PUSHAB COMMAND_DESC	1115
		54	DD 00066	PUSHL R4	
67		02	FB 00068	CALLS #2, CLISGET_VALUE	
		0E	11 0006B	BRB 4\$	
58		50	D1 0006D 2\$:	CMPL STATUS, R8	1116
		05	13 00070	BEQL 3\$	
59		50	D1 00072	CMPL STATUS, R9	1117
		04	12 00075	BNEQ 4\$	
52	30	A3	C8 00077 3\$:	BISL2 EDT_M_NOCOMMAND, EDT_FLAGS	1118
	30	A4	9F 0007B 4\$:	PUSHAB SD_JOURNAL	1120
65		01	FB 0007E	CALLS #1, CLISPRESENT	
0B		50	E9 00081	BLBC STATUS, 5\$	1121
	10	A3	9F 00084	PUSHAB JOURNAL_DESC	1122
	30	A4	9F 00087	PUSHAB SD_JOURNAL	
67		02	FB 0008A	CALLS #2, CLISGET_VALUE	
		0E	11 0008D	BRB 7\$	
58		50	D1 0008F 5\$:	CMPL STATUS, R8	1123
		05	13 00092	BEQL 6\$	
59		50	D1 00094	CMPL STATUS, R9	1124
		04	12 00097	BNEQ 7\$	
52	28	A3	C8 00099 6\$:	BISL2 EDT_M_NOJOURNAL, EDT_FLAGS	1125
	40	A4	9F 0009D 7\$:	PUSHAB SD_OUTPUT	1127
65		01	FB 000A0	CALLS #1, CLISPRESENT	
0B		50	E9 000A3	BLBC STATUS, 8\$	1128
	18	A3	9F 000A6	PUSHAB OUTPUT_DESC	1129
	40	A4	9F 000A9	PUSHAB SD_OUTPUT	

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

K 15
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[MAIL.SRC]EDIT.B32;1

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	67		02	FB	000AC		CALLS	#2, CLISGET_VALUE	:	
			0E	11	000AF		BRB	10\$:	
	58		50	D1	000B1	8\$:	CMPL	STATUS, R8	:	1130
			05	13	000B4		BEQL	9\$:	
	59		50	D1	000B6		CMPL	STATUS, R9	:	1131
			04	12	000B9		BNEQ	10\$:	
	52	2C	A3	C8	000BB	9\$:	BISL2	EDT_M_NOOUTPUT, EDT_FLAGS	:	1132
		10	A4	9F	000BF	10\$:	PUSHAB	SD_CREATE	:	1134
	65		01	FB	000C2		CALLS	#1, CLISPRESENT	:	
	58		50	D1	000C5		CMPL	STATUS, R8	:	1135
			05	13	000C8		BEQL	11\$:	
	59		50	D1	000CA		CMPL	STATUS, R9	:	1136
			04	12	000CD		BNEQ	12\$:	
	52	34	A3	C8	000CF	11\$:	BISL2	EDT_M_NOCREATE, EDT_FLAGS	:	1137
		4C	A4	9F	000D3	12\$:	PUSHAB	SD_READ	:	1139
	65		01	FB	000D6		CALLS	#1, CLISPRESENT	:	
50	0E		50	E9	000D9		BLBC	R0, 13\$:	
	52	2C	A3	C9	000DC		BISL3	EDT_M_NOOUTPUT, EDT_FLAGS, R0	:	1140
	50	34	A3	C8	000E1		BISL2	EDT_M_NOCREATE, R0	:	
52	50	28	A3	C9	000E5		BISL3	EDT_M_NOJOURNAL, R0, EDT_FLAGS	:	1141
			7E	D4	000EA	13\$:	CLRL	-(SP)	:	1143
			52	DD	000EC		PUSHL	EDT_FLAGS	:	
FD78	CF		02	FB	000EE		CALLS	#2, CALL_EDT_EDIT	:	
	50		01	D0	000F3		MOVL	#1, R0	:	1145
			04	000F6			RET		:	1146

; Routine Size: 247 bytes, Routine Base: \$CODE\$ + 0A8A

MAIL\$EDIT
V04-000

EDIT OR ENTER A MESSAGE

L 15
16-Sep-1984 00:51:12
14-Sep-1984 12:42:17

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DISK\$VM\$MASTER:[MAIL.SRC]EDIT.B32;1

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: 1020 1147 1 END
: 1021 1148 0 ELUDOM

.EXTRN LIB\$SIGNAL, SYSS\$UNWIND

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	88	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	2945	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
EDT_ADDRESSES	52	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
EDT_NAMES	96	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	143	1	581	00:00.7
\$255\$DUA28:[MAIL.OBJ]MAILDEF.L32;1	457	12	2	26	00:00.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:EDIT/OBJ=OBJ\$:EDIT MSRC\$:EDIT/UPDATE=(ENH\$:EDIT)

: Size: 2355 code + 826 data bytes
: Run Time: 00:30.5
: Elapsed Time: 01:53.3
: Lines/CPU Min: 2256
: Lexemes/CPU-Min: 44018
: Memory Used: 229 pages
: Compilation Complete

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